

Integrating Simulation in Top Engineering Programmes

Introduction

Today engineering simulation is everywhere in top school campuses. Research output shows a marked increase due to adoption of commercial simulation software. Students realize that simulation is a vital skill required by prospective employers. Therefore, adoption of simulation can be seen in senior design projects, thesis, dissertation & in student research papers. While average student project teams use simulation routinely, the top teams actively use High Performance Computing (HPC) for sophisticated analysis. The ease of coupled multiphysics, optimization & HPC via commercial simulation software is now reverberating throughout the academic world.

For simulation to be implemented in projects & research, it has to first be integrated into the curriculum. Professors are using simulation as a means of visualizing & reinforcing concepts in fundamental undergrad courses; these then serve as a foundation for full-fledged undergrad/grad simulation courses. Simulation is being taught at some of the top schools using learning portals (open access), while new video-based materials help professors bring simulation more easily into classroom.

Engineering simulation is a great platform to connect with industry & source projects. Top engineering schools are increasing industry-sponsored research and simulation is playing an important role in such projects. Using industry-standard simulation tools tightens the collaboration & helps to create industry-ready students.

Objectives

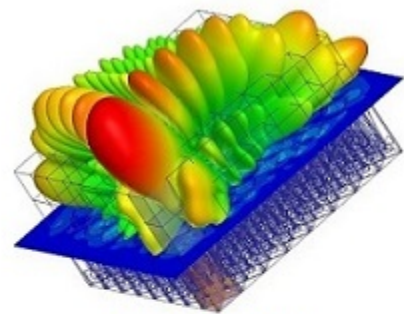
This presentation will give a 360 degrees view on the relevance of simulation to the ranking of a top school. The continuous pressure on licensing due to increased demand & costs presents an issue to schools everywhere. An innovative approach that greatly helps schools tackle licensing and costs will be presented as well.

Who Should Attend

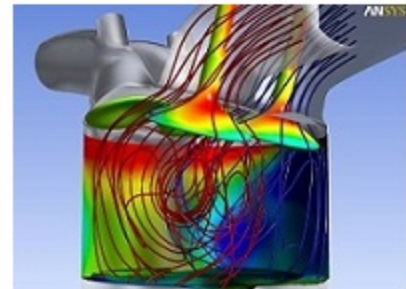
Professors, Curriculum planners

What customers say about our solutions

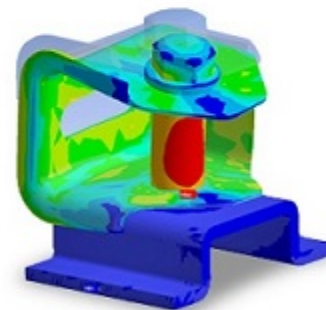
"The academic products from ANSYS have very good documentation and help tools. The products help us to solve the different tasks within our practical-oriented design projects as well as within the students' scientific diploma and master theses."



Electromagnetics



Computational Fluid Dynamics



Structural

"The demonstrated depth and breadth of fundamental finite element modeling technologies together with the tight integration and ease of use makes the ANSYS Workbench platform ideal for use in an academic classroom/research setting."

Professor Kent Lawrence, Mechanical and Aerospace Engineering, University of Texas at Arlington, U.S.A.

"Software from ANSYS allows us to provide students with a strong foundation in the intelligent and appropriate use of state-of-the-art FEA technology, an important skill for a mechanical engineer."

Professor Rajesh Bhaskaran, School of Mechanical and Aerospace Engineering, Cornell University, U.S.A.

"We use ANSYS software because we need to speed up our development process for new products by speeding up all phases of design. With simulation we can investigate inside our products virtually, not physically, and look at detail that would be impossible to evaluate otherwise. We can improve the efficiency of our products by investigating small changes in parameters and spend less time than we would for creating a real prototype and testing."

Matteo Cipelli, Advanced Engineering COE Manager, Lowara Srl

Guest Speaker



Dr. Murali Kadiramangalam is Director of the ANSYS Global Academic Program. He has built successful simulation groups both in the United States and India during his 20+ years in the business, divided equally between the two countries. Dr. Murali built up one of India's top groups in simulation, that spans development, testing, global support, sales, marketing and allied functions. Dr. Murali has a Masters and Doctorate from New York University in Applied Science and a Bachelors in Mechanical Engineering from MS University, Baroda, India. He serves on the boards of ANSYS India and Fluent India.

Event Information

Date : 5th February 2015 (Thursday)
Time : 2:45 pm - 5:00 pm
Venue : CIT Auditorium, National University of Singapore
21 Lower Kent Ridge Road Singapore 119077 ([view map](#))

Agenda	Time	Topic
	2:45 pm - 3:00 pm	Registration
	3:00 pm - 3:20 pm	Introduction to CAD-IT and ANSYS
	3:20 pm - 5:00 pm	Integrating Simulation in Top Engineering Programmes

[Register NOW](#)

- Register online for this 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 (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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