



Computational Fluid Dynamics (CFD) for Building Industry

Seminar Overview

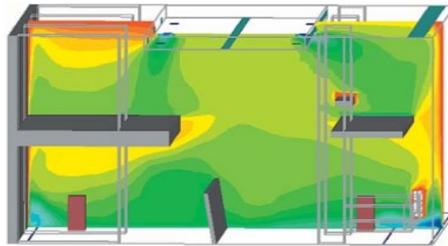
Contrary to most industries, for civil engineering and build environment there is no prototype. You have to be right the first time. Even before the construction begins, while submitting the project, you need to prove that you are better than anyone else and that your proposal will sustain whatever service or extreme situations your solution would experience during its lifecycle.

Also, there is no surprise that Civil Engineering has been one of the first industry to embrace engineering simulation as a way to predict accurately how the building will sustain a massive earthquake, hurricane, fire and explosion, to mention a few. Nowadays, computational fluid dynamics (CFD) are becoming standard. Yet their adoption in a Simulation Driven Building Design (SDBP) is still limited to a few leading companies.

By applying industry specific best practices, early adopters of engineering simulation are making a difference by replacing some long and costly experiments by quick and comprehensive modeling to emerge as new leaders.

Who Should Attend

Civil engineers, architects, HVAC engineers, designers, managers, business owners, industrial hygienists, safety consultants and professionals who need to assess/diagnose the performance of real or conceived ventilation system designs.



What customers say about our solutions

"ANSYS CFD solutions allow us to evaluate the Building Designs from Sustainable Technologies point of view. ANSYS simulation has helped our consultant to advise in enhancing the building design that is more energy efficient and cost effective by analyzing the impact of environmental factors such as wind ,solar on the building facade. I am pleased with the prompt technical support provided by CAD-IT on unique concerns."

Ameet AA, Engineer, Surbana Technologies Pte Ltd

"ANSYS FLUENT CFD package is an important tool in the optimization of ductless jet fan MV system design for car parks and other non-naturally ventilated enclosures. The use of Ductless Jet Fan MV system must be accompanied by rigorous CFD to substantiate that the prescribed level of safety and function provided by ducted designs are met. The accuracy and speed of the CFD simulations provided by ANSYS FLUENT makes it possible to exceed our clients' expectations."

Shyam Dayanandan, Operations Manager, Computational Engineering Solutions LLP

"Engineers who scoffed at CFD analysis a year and a half ago now prefer that design changes be evaluated using CFD before being tried in that field."

"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

"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

About the speaker

Dr Vincent Chai is currently a technical sales engineer at CAD-IT Consultants and is part of the technical and sales team that support customers in various disciplines and domains. He graduated from NTU with a Ph.D. degree in Mechanical and Aerospace Engineering, where his thesis is focused on flapping wings aerodynamics (experimental and numerical simulation study) for unmanned vehicles. He has worked as a project officer for DSTA project on debris flight analysis and Research engineer from NIDEC Singapore.



Seminar Information

Seminar Title : Computational Fluid Dynamics (CFD) for Building Industry
Dates : Friday, 20th March 2015
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](#))

[Register NOW](#)

- Please register early to avoid disappointment as seats are limited.
- 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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