

**ANSYS**<sup>®</sup>Realize Your Product Promise<sup>®</sup>

# SimSight

A customer Newsletter of ANSYS India

## Dear Friends,

As many of you are aware ANSYS successfully concluded the 2014 Convergence Conference in Pune, Bangalore and New Delhi this past May. We had a great turnout and I had the chance to meet many of you in person. Thank you for your continued support. If you missed attending, we have select pictures from these events to view below.

In the next few months we bring you webinars and events on variety of topics. First we have a dedicated ANSYS HPC webinar followed by a seminar for those wanting to invest more in HPC. If you are a professional in the Automotive or Energy & Process domain we have a special series of webinars and events lined up as well.

Be on the lookout for our mailers and don't miss the opportunity to be a part of these highly engaging series!

Warm regards

Rafiq Somani  
Country Sales Manager, ANSYS India



## News & Events @ ANSYS India

### Upcoming Event:

#### 3 day workshop at ARAI, Pune on CAE for Powertrain Application:

As a continuation to our Powertrain webinar series where you heard and learnt from us about CFD Simulation of Air-handling and Fuel Systems, FEA Simulation of Engine Powertrain and CFD Simulation of Coolant, Lube and Transmission Systems we now bring to you a 3 day workshop on CAE for Powertrain Application at ARAI (The Automotive Research Association of India) from 7th - 9th July 2014. For more details and to download brochure

[Click here >>](#)

### Upcoming Webinars

#### Webinar on High-Performance Computing

Tuesday, July 15, 2014, 11:00 am IST

Duration: 60 minutes

With ever-increasing complexity and fidelity of the simulation models, parallel computing or HPC becomes an indispensable tool for boosting productivity to achieve the turnaround time required for product development decision making. This webinar will show parallel scalability of our FEA and CFD products and how you can benefit from it.

[To register >>](#)

#### Webcast Series: The Energy and Process Industries in Asia

#### Accelerating Global Adaption of Engineering Simulation in Oil and Gas and Petrochemical industries

Tuesday, July 08, 2014, 10:00 am IST

Duration: 60 minutes

In this Webinar learn about how engineering simulation software is playing an increasingly critical role, enabling engineers to create virtual prototypes and capture new knowledge about the detailed working of their equipment and processes. The benefit from these simulation includes understanding the root cause and reducing failure, improving product reliability and quality, evaluating new designs, estimating equipment life, help trouble shoot and access new concepts.

[To register >>](#)

#### Modeling Erosion and Corrosion using Computational Fluid Mechanics Solutions from ANSYS

Tuesday, July 22, 2014, 10:00 am IST

Duration: 60 minutes

Equipment, pipelines, oil and gas tools and machineries are designed to handle erosive and corrosive environment. This webinar will provide an overview of a range of erosion modeling examples and will highlight the current application of CFD to corrosion modeling. As a result, attendees will gain insights into how through simulation driven product and process development it is possible to increase product performance and safety, reduce equipment failure and better manage product designs.

[To register >>](#)

## Run like the Wind

Computational fluid dynamics is used as a virtual wind tunnel to optimize the design of scramjet engines at up to Mach 6.5. Researchers at the Indian Institute of Technology (IIT) Madras are working on the hypersonic technology demonstrator vehicle (HSTDV) for the Defence Research Lab. The HSTDV is an unmanned scramjet demonstration aircraft for hypersonic flight (Mach 6.5). Researchers first evaluated the ability of ANSYS Fluent to provide accurate design predictions for the HSTDV scramjet by simulating a scaled down intake design for which wind tunnel results have been published in open literature. The simulation results captured the intricate details shown in the physical test results, including impinging shock induced separation and re-attachment of the boundary layer.

[To read more >>](#)

## Size Matters

The sizing of welds is often controlled by standards, such as those developed by the American Institute of Steel Construction and the American Welding Society. These standards were written with the expectation that hand calculations would be used to determine generalized loads for structures with relatively simple geometries.

[To read more >>](#)

## Breakthrough for Brake Design

Friction-induced brake squeal has been a challenging issue for the automotive industry for decades; it has become particularly important today as other sources of noise have been reduced or eliminated. TRW and other brake producers previously relied on a brake-squeal simulation method in which interfaces between brake pads, rotors and other components were manually modeled prior to performing structural analysis. Recently, TRW has validated a new method that uses ANSYS Mechanical software to establish the initial contact and compute the sliding contact between the pads and the disc.

[To read more >>](#)

## Event Highlights

### 2014 ANSYS Convergence Conference

To know more about ANSYS India trainings [click here](#)

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## Event Highlights

### 2014 ANSYS Convergence Conference

