

A Brand That Delivers Certainty



“When product designs are modeled and simulated on the computer, there is one thing that really matters to engineers... Certainty.

We rely on software to help us design safer products. We rely on it to tell us whether our products will withstand real life environmental and mechanical loading conditions (often times extreme). We rely on it to tell us if the design will last as it undergoes a series of loads throughout the product's expected lifespan. We trust that the software we use will give us accurate performance assessments of the products the world uses every day to travel in, play with, generate energy with, and even the ones used inside and outside the human body to keep us living longer and enjoying a better quality of life.

With an engineering simulation market that is growing rapidly and expected to reach \$2.9B in size by 2012, it means more product manufacturers are relying on computer aided engineering (CAE) technology everyday to develop products that are safe, reliable, higher quality, better performing, and longer lasting. It is our mission at MSC Software to provide the means to do it.

As part of this issue of Simulating Reality, we wanted to discuss the importance of certainty in a brand, by once again, providing examples through the voices of our valued customers.

Over the years I've watched manufacturers continue to use MSC because it is a brand that personifies certainty: certainty in computational analysis results the world can rely on, with the people and expertise to support the toughest engineering problems out there.

In this issue, we spotlight customer use cases that discuss continuous reliance on simulation software to make better decisions, reduce costs of physical testing, or gaining confidence in results through new methods of correlation between virtual and physical test data.

On page 14, AeroVironment says “MSC Nastran results matched physical test data so well it was hard to believe.” In this article, you can learn more about their use of analysis to test an unmanned aircraft with a wingspan of a Boeing 767, but with less than 10% of the weight.

On page 18, Setforge Engineering says: “We were able to compare a virtual video of the deformation generated by Patran with real video footage shot in one of our plants. “The match was impressive.” These are just a couple of our customer spotlights you might find of interest.

Finally, don't forget to check out this issue's feature story entitled “There is a Better Way,” which presents MSC's new addition to the portfolio - Computational Fluid Dynamics (CFD). We are pleased to offer XFlow, an innovative CFD software solution, giving our customers more physics to help solve a greater number of engineering problems – with certainty, as always.

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Sincerely,

A handwritten signature in black ink that reads "Leslie Rickey".

Leslie A. Rickey,
Editor