

Editor's Note

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The hallmark of Fluent News has always been the featured articles that describe a wide assortment of computational fluid dynamics (CFD) applications. Over the years, the simulations reported in our pages, along with hundreds of others, have brought benefits to businesses, academic projects, and research programs all over the world. CFD has helped companies improve product quality, shorten time to market, and save money. It has made the quality of our lives better through healthcare advancements and has even helped us have more fun through simulations of amusement park rides and the equipment used by the Olympic athletes we watch every four years. In this Special Edition of *Fluent News*, we celebrate the widespread success of fluid simulation by focusing on stories that reflect the multitude of benefits that CFD continually provides to our customers across a broad range of applications.

While the collection of stories represents only a small sampling of the many anecdotes that come to our attention every day, the breadth of topics covered is considerable. The benefit of CFD to the design of race cars is

described on page 5 and to the design of tractor cooling packages on page 9. Numerical simulation is shown to help large (page 42) and small (page 30) manufacturing companies alike by providing a better understanding of product performance. It is being used for critical medical needs (pages 38 and 40), and is even being used to understand ways to improve the air we breathe (pages 12 and 17).

In addition to our ongoing discussions of customer successes at Fluent, the recent purchase of Fluent by ANSYS, Inc. has generated a great deal of excitement. At right, Jim Cashman, CEO of ANSYS, extends a warm welcome to all of you, and provides a sense of the promising opportunities that lie ahead for all of us as our companies join forces. We sincerely hope that you share our enthusiasm and anticipation, and that you continue to share with us the stories of your successes with our products.

Liz

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On the cover:

Pathlines colored by velocity magnitude are released from the radiator core of the Aston Martin Racing DBR9 as it rounds the Corkscrew at Laguna Seca in Monterey, California.

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Courtesy of *Advantage CFD and Aston Martin Racing*.
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