# Simulation in the News

FLOWSERVE EMBRACES "DIGITAL TWIN" FOR REAL-TIME ANALYSIS

Develop3D, August 2016

Flowserve signed an enterprise license agreement to use ANSYS simulation software to produce "digital twins" — complete system virtual prototypes — of its products, enabling real-time monitoring of industrial pumps, seals and valves. Digital twins enable Flowserve to analyze true operational data to determine the performance of products in real-world operating conditions.

> "We expect our utilization of IoT technology and ANSYS simulation capabilities to increase the value we provide when our customers need advanced flow solutions."
>
> —— **Keith Gillespie**, *Flowserve CSO*

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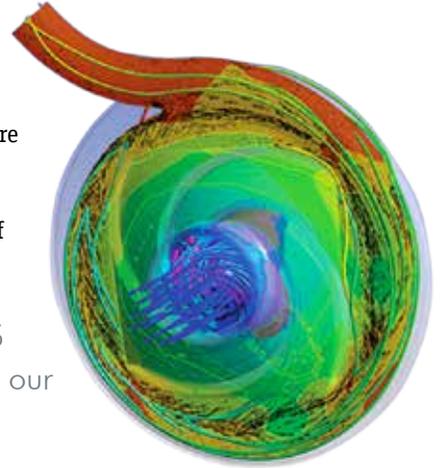
ANSYS 17.2 RELEASED

ANSYS, August/September 2016

ANSYS 17.2 has been released to add a wealth of new functionality to this simulation tool platform, including enhanced multiphysics coupling, new workflows for antenna design, and automated temperature characteristics

for electric machines. This latest release also adds GT-Suite 2016 plug-in compatibility for better combustion modeling; a complete workflow for software design, code generation, and software testing and verification; and a new SCADE Test environment capability to automate the testing of embedded displays. ANSYS AIM 17.2 enhances engineering simulation for thermal management, extends collaboration between designers and analysts, and brings upfront simulation to Japanese engineers in their own language.

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ANSYS, GE PARTNER TO BRING SIMULATION TO THE INDUSTRIAL IOT

Design World, September 2016

An agreement between ANSYS and General Electric expands GE's use of ANSYS engineering simulation solutions to pilot new simulation-as-a-service applications built on Predix, the operating system and platform for industrial internet applications. These applications focus on gathering big data analytics across industries such as aviation, transportation, healthcare, and oil and gas. Businesses will be able to analyze the performance of smart, connected machines, predict future performance, avoid unplanned downtime, and accelerate product development.

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LEADERSHIP SUCCESSION PLAN

Digital Engineering, August 2016

A leadership succession plan for ANSYS has been announced. James E. Cashman, who has served as ANSYS' chief executive officer since 2000, will become chairman of the board of directors effective January 1, 2017, and will be succeeded by Ajei S. Gopal, a technology industry veteran and member of the board since 2011.

Gopal, has been appointed president and chief operating officer until January 1, and will continue to serve on the Board.

SGI AND ANSYS ACHIEVE NEW CFD WORLD RECORD IN HPC

ANSYS Blog, September 2016

ANSYS and SGI achieved a new world record for scaling ANSYS Fluent on an SGI® ICE™ XA, one of the world's fastest commercial distributed-memory supercomputer platforms. This joint project breaks last year's 129,024 core record by more than 16,000 cores.

Combustor 830M - ANSYS Fluent 17.2
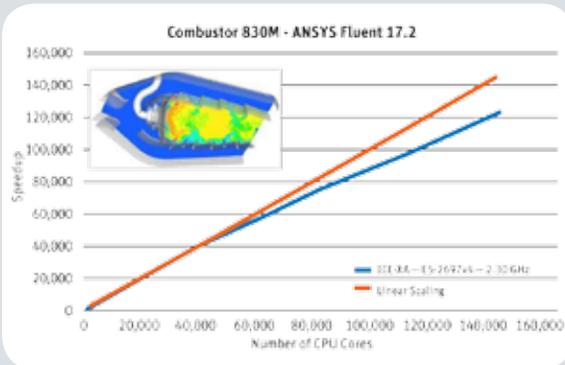
> *The new world record benchmark reduces the total solver wall clock time to run a single simulation from 20 minutes for 1,296 cores to a mere 13 seconds using 145,152 cores.*
>
> — **Tony DeVarco**,
> *Director of Virtual Product Development Manufacturing Solutions, SGI*

ANSYS HELPS STARTUP COMPANIES CREATE TOMORROW'S PRODUCTS

Industry Today, September 2016

Startup companies can speed their innovative products to market by leveraging the same cutting-edge engineering simulation solutions used by larger, more established industry leaders. The ANSYS Startup Program provides small companies around the world with virtually free access to ANSYS' leading suite of engineering simulation products

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ANSYS HONORED AS 2016 CONFIRMIT ACE AWARDS JUDGES' CHOICE WINNER

Mechspot, June 2016

ANSYS has been named a Judges' Choice winner of the 2016 Confirmit ACE (Achievement in Customer Excellence) Awards in the Innovation in Customer Engagement category. The ACE Awards program was established in 2005 to recognize outstanding achievement in customer experience.

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## RESEARCH LAB TO IMPROVE METAL 3-D PRINTING

NextPittsburgh, June 2016

The University of Pittsburgh and ANSYS have formed a partnership to establish a new additive manufacturing research laboratory at the Swanson School of Engineering. The partnership will ensure collaborative research between Pitt faculty and students and ANSYS, and further education and research to develop software tools that solve some of the industry's toughest additive manufacturing problems. As part of the partnership, the university is opening a 1,200-square-foot additive manufacturing lab that will enable students and faculty to perform their own research.

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BRINGING SIMULATION TO STEM EDUCATION
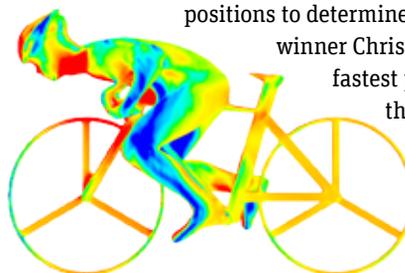
Engineering.com, June 2016

ANSYS's academic program manager, Paul Lethbridge, reveals the challenges of incorporating simulation into education programs, especially at the K–12 level. ANSYS helps teachers and students gain access to simulation by offering educational editions of its software and through free classes such as Cornell's massive open online course (MOOC).

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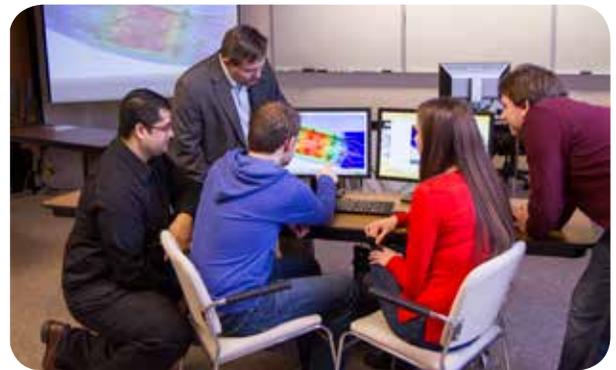
WHY CHRIS FROOME'S UNUSUAL DESCENDING STYLE ISN'T AS FAST AS IT LOOKS

Cycling Weekly, July 2016

Bert Blocken of the Eindhoven University of Technology and other researchers at KU Leuven, the University of Liège in Belgium and ANSYS used ANSYS computational fluid dynamics (CFD) to compare four different bicycle riding positions to determine if Tour de France winner Chris Froome used the fastest position to descend the Col de Peyresourde, one of the most unexpected moments of the race. ∧