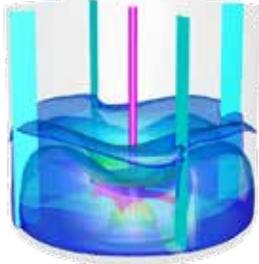# Simulation in the News

ANSYS: THE CHEMICAL SIMULATION PIONEERS
CIO Review, May 2017

Simulation is a vital tool in the chemical and process industries. ANSYS continues to add the modeling capabilities that these industries require. ANSYS CEO Ajei Gopal explains the value of simulation in a sector where high raw material costs, overcapacity and demanding regulatory requirements have been a challenge.

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PRATT & WHITNEY STANDARDIZES ON ANSYS ENGINEERING SIMULATION
MCADCafé, May 2017

The new agreement will increase collaboration across Pratt & Whitney's global teams to help the company more efficiently solve some of its most complex engineering challenges. This will, in turn, enable the company to reduce expensive physical testing and accelerate product development.

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ORCHESTRATING HPC ENGINEERING IN THE CLOUD
The Next Platform, February 2017

Through the ANSYS Enterprise Cloud, companies can begin to migrate some of their workloads to the cloud. Through collaboration with AWS and Cycle Computing, companies are able to leverage the cloud to ensure availability of computing power and maintain security while managing workloads.

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### YOUR BODY MODELED IN A COMPUTER?
Biovox, March 2017

Creating a virtual human will be essential in the future for healthcare and medical device companies to cost-effectively and systematically test new products early in the design process. The implications go far beyond medical-based industries and can extend into automotive and other industries where it is essential to determine how the human body interacts with a product.

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ANSYS 18.1 INCLUDES FEATURES TO SIMULATE MORE AND FASTER
Digital Engineering, May 2017

Engineers can create next-generation products quicker and easier with the release of ANSYS 18.1. ANSYS continues to build upon the digital exploration and digital prototyping capabilities released in ANSYS 18, enabling organizations to simulate more upfront, limit costly late-stage design changes, and bring their innovative products to market faster and easier.
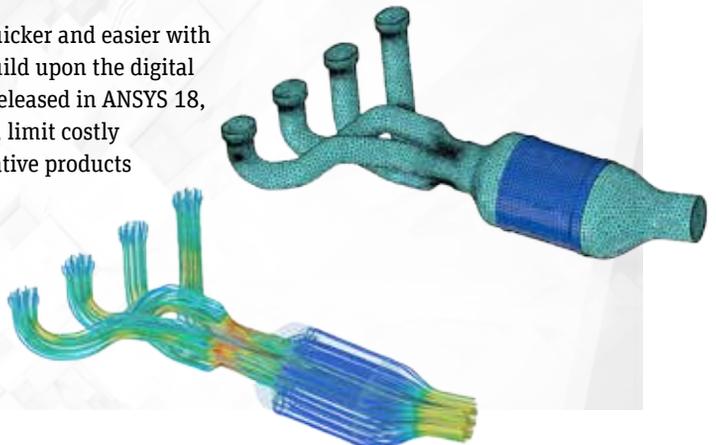
Release Highlights
ansys.com/18

FLYING HIGH WITH ANSYS:
ANSYS ACHIEVES AEROSPACE MILESTONE
Bloomberg, April 2017

Manufacturers must meet performance targets and comply with industry regulations to ensure that critical equipment meets safety standards. Companies use ANSYS qualified solutions for embedded software to design, simulate, generate and test embedded code for more than 100 aerospace applications that have been certified under DO-178B and DO-178C.

APOLLO ENGINEERING TAKES AMUSEMENT PARK CAD FOR A RIDE IN THE CLOUD
Engineering.com, March 2017

When engineering designs for amusement park rides, safety and reliability are paramount. Apollo Engineering Design Group uses structural analysis for stress and defection, and to determine joint interaction, clearance and tolerances for roller coasters.

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KEEPING THE WHOLE PACKAGE COOL
Semiconductor Engineering, May 2017

As system-in-package devices become more complex when manufacturers squeeze more transistors into less overall space, new heat dissipation issues are emerging. More heat is generated by a device as the number of transistors inevitably increase, but the ability to dissipate the heat depends on the package surface area.

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METAL ADDITIVE MANUFACTURING KEEPS LEGEND FLYING
Engineering.com, April 2017

ANSYS Elite Channel Partner Phoenix Analysis and Design Technologies aided the owner of a vintage long-range escort fighter that was flown in WWII to create an improved replacement part. Using 3-D scanning and rendering, engineering simulation and additive manufacturing (3-D printing) from Concept Laser Inc., the team designed, manufactured and validated (and even reduced the number of components) for a replacement exhaust stack for the aircraft.

FROOME'S "SUPER TUCK" ACTUALLY ISN'T FASTER
Velonews, May 2017

Researchers from Eindhoven University of Technology, Leuven University, the University of Liège, and ANSYS studied downhill positions of racing cyclists using wind tunnel testing and CFD to determine the most effective positions.

Position "Back upwards"	Position "Back horizontal"	Position "Froome"	Position "Back down"	Position "Pantani"	Position "Top tube safe"
Slowest	8% faster	9% faster	12% faster	14% faster	17% faster