Simulation in the News

ANSYS SPURS PERVASIVE ENGINEERING SIMULATION WITH ANSYS 18 RELEASE

MCADcafe, January 2016

ANSYS 18 builds upon decades of cutting-edge technology for the most complete and accurate digital prototypes across all major physics, electronics and embedded software areas. This feature-rich release expands the boundaries of simulation upfront in the development process to include digital exploration and extends simulation to the operations and maintenance of products through digital twins.

> "We're doing things today that could only have been imagined just a few years ago, and simulation is playing a huge role. ANSYS simulation allows us to make better decisions earlier in the design process to get our design right the first time and produce the best products on time at the lowest cost for our customers."
>
> — **Bob Tickel**, *director of structural and dynamic analysis, Cummins*

NASA GRANT TO SIMULATE SPACE IMPACT ON METAL PARTS

3ders.org, November 2016

Researchers in additive manufacturing at the University of Pittsburgh Swanson School of Engineering received a $500,000 award from NASA to develop a simulation tool based on ANSYS software to predict the integrity of 3-D printed metal parts used in space.

ANSYS ACQUIRES KPIT MEDINI TECHNOLOGIES

The Economic Times, November 2016

KPIT medini Technologies, a Berlin-based group that develops functional safety products, was acquired by ANSYS in November 2016. As products become smarter and more complex, the need to simulate the entire system to avoid failure becomes vital. A combined ANSYS–medini solution enables companies to have one system simulation solution for the entire product development cycle to make systems safer and more reliable.

ANSYS NAMES INDUSTRY VETERAN RICK MAHONEY TO LEAD WORLDWIDE SALES

AEC Newsroom, December 2016

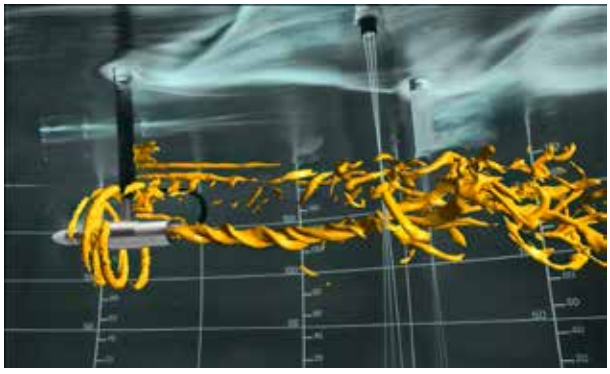
ANSYS has strengthened its executive team and added best-in-class enterprise sales capabilities by appointing industry veteran Rick Mahoney as its vice president of worldwide sales and customer excellence.

> "ANSYS is perfectly positioned to help our customers take advantage of trends like IoT and Industry 4.0, which are reshaping product development, manufacturing and operations. Rick brings the right combination of industry knowledge and demonstrated success to help our customers innovate faster and more efficiently."
>
> — **Ajei Gopal**
> *CEO, ANSYS*

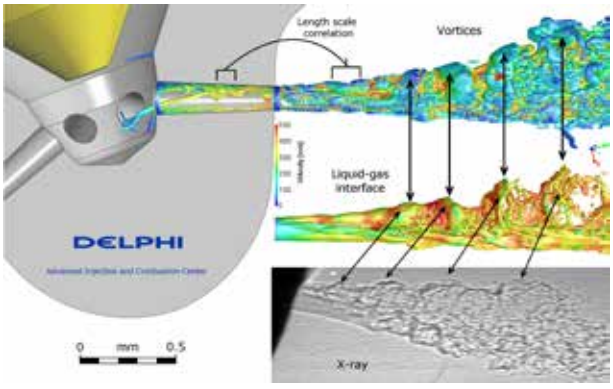
ANSYS 2017 HALL OF FAME WINNERS

IT Business Net, January 2017

From improving automotive fuel injection systems to capturing ocean energy to designing cutting-edge transportation systems, the winning entries of the annual ANSYS Hall of Fame competition highlight how engineers are solving complex, time-consuming and expensive challenges with engineering simulation software. View the winners and runners-up at ansys.com/hall-of-fame.



To capture energy from ocean tides to create renewable energy, researchers at Cardiff University used ANSYS simulation software to analyze wakes captured by tidal stream turbines to increase reliability and reduce costs of tidal energy.



Delphi Automotive Systems used ANSYS simulation to explore vortex-driven atomization in high-pressure diesel injection.

GE AND ANSYS TO PRESIDE OVER A DIGITAL TWIN AND INTERNET OF THINGS MARRIAGE

Engineering.com, November 2016

GE and ANSYS announced a collaboration to bring together simulation, model-based design (MBD) and the Industrial Internet of Things (IIoT). ANSYS will work with GE to expand and integrate ANSYS's leading physics-based engineering simulation and embedded software development platform with GE's Predix platform to power digital twin solutions across a wide range of industries.

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INTEL CUSTOM FOUNDRY AWARDS ANSYS TEAM FOR EXCELLENCE

Intel Custom Foundry (ICF) customers are powering cutting-edge products by leveraging ICF-certified ANSYS solutions for electromigration, power and electrostatic discharge reference flows for its 10-nanometer (nm), third-generation trigate process technology. The close collaboration between ANSYS and Intel Custom Foundry teams have enabled mutual customers to minimize design costs and risks, and bring innovative and reliable products to market quickly. The Intel Custom Foundry team recognized three members of the ANSYS team for their efforts and commitment to the successful closure of the 10-nm certification program.

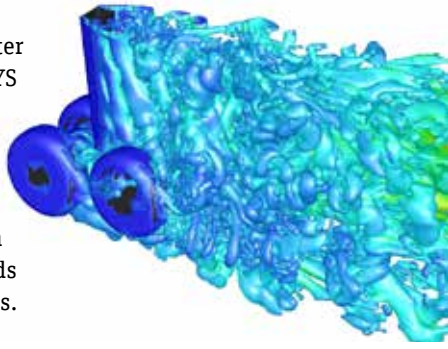
"The certification of ANSYS tools gives our mutual customers a competitive advantage when implementing robust, high-performance intellectual properties and SoCs on our 10-nm design platform."

— **Venkat Immaneni**
Senior director, foundry design kit enablement for Intel Custom Foundry

TURBULENCE — WHAT A DRAG IT IS WHEN YOU DRIVE

Engineering.com, December 2016

Understanding turbulence is difficult. To predict flow on the scale of molecules and apply it to cars, planes and entire buildings requires using physics models through simulation. Florian Menter explains a solution ANSYS has developed to more accurately and efficiently determine turbulence called stress-blended eddy simulation (SBES). This model blends RANS and LES techniques.



"The whole trick is to be able to convert between RANS areas and LES intelligently — and on the fly."

— **Florian Menter**
Senior Research Fellow, ANSYS