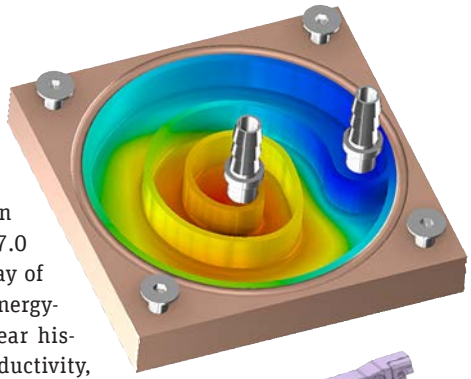
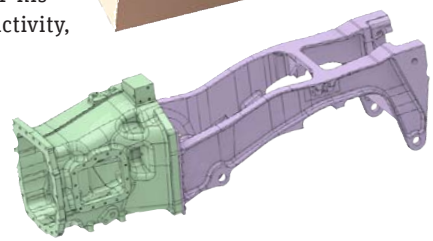
Simulation in the News

ANSYS 17.0 FOCUSES ON EXPEDITING VIRTUAL SIMULATION AND PRODUCTIVITY

Design News
designnews.com, February 2016





The January release of the next generation of the industry-leading engineering simulation software — ANSYS 17.0 — features quantum leap advances in many methodologies of simulation-driven product development. ANSYS 17.0 offers unprecedented enhancements in simulation solutions for a wide array of industry initiatives, from smart devices to autonomous vehicles to more energy-efficient machines. The most feature-rich release in the company's 45-year history, ANSYS 17.0 delivers 10x improvements in product development productivity, insight and performance.

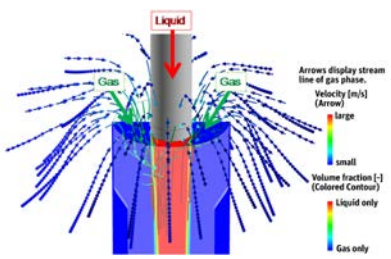
"By closely integrating the fluid and the mechanical interfaces, we are now able to simulate and gain insight into the real physics of the problem without having to set up artificial boundary conditions."

— Brad Kramer, Director of Engineering, HUSCO International

ANSYS AND FUJITSU PARTNER TO ACCELERATE SIMULATION IN THE CLOUD

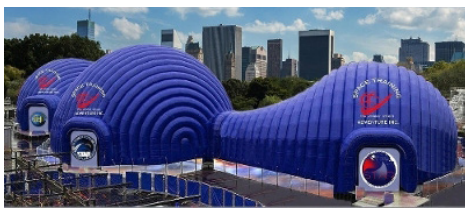
Desktop Engineering
deskeng.com, November 2015

Chiyoda Corporation, a leading Japanese company in the global energy industry, uses ANSYS Fluent for a variety of applications. The company needed more computing resources to quickly process complex simulations. Using Fujitsu's Technical Computing Cloud, simulations are running six times faster when compared with four-way parallel processing.



SPACE TRAINING ADVENTURE AND RESEARCH LAUNCHES MOBILE SPACE CAMP

Aero-News Network
aero-news.net, December 2015



Space Training Adventure and Research (STAR) will soon launch the Enterprise Spaceport, a state-of-the-art mobile space camp that will tour the country. The goal is to excite and engage elementary to college students in interactive science, technology, engineering and math (STEM) activities involving space and earth sciences. STAR will leverage ANSYS 3-D visualization software in its 3-D printing and additive manufacturing education labs. Students will also use ANSYS simulation software to understand how physics-based simulation plays a role in the development of products related to space travel.

"It is very exciting to partner with a leading company like ANSYS that values STEM education as we do."

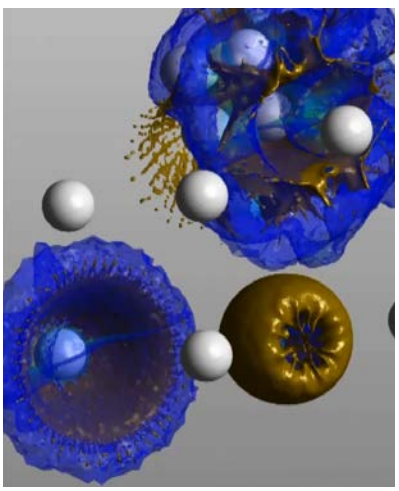
— Shahinaz Millar, president and CEO of Space Training Adventure and Research (STAR)

WINNERS OF THE 2016 ANSYS HALL OF FAME COMPETITION

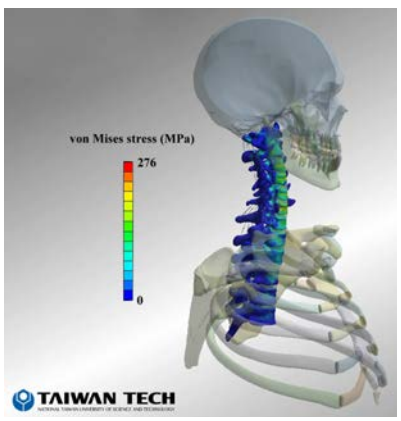
Eureka Magazine
eurekamagazine.co.uk, January 2016

From reducing aircraft emissions to pinpointing the degree of cervical degenerative disc disease before and after treatment, winning entries of the annual ANSYS Hall of Fame competition highlight how simulation software is solving the most complex engineering challenges across industries. The winners were announced in January. *View more at ansys.com/hall-of-fame.*

▲ Design Methods coupled ANSYS Fluent for aerodynamic analysis to rbf-morph to successfully design an A-class catamaran sail.



▲ To investigate droplet–catalyst collisions inside FCC reactors, City University London and Centre for Research and Technology Hellas used ANSYS DesignModeler and ANSYS Fluent. Simulations showed that collisions between droplets and hot catalysts of equal size improve conversion.



▲ Researchers at the National Taiwan University of Science and Technology used ANSYS structural simulation in ANSYS Workbench to determine the range of motion, maximum stress of intervertebral discs, maximum stress of bones, and maximum stress of cervical repair devices. The results showed that artificial disc replacement surgery could reduce degeneration of adjacent segments of the spine compared with anterior disc removal and spinal fusion surgery.

MODELITHICS' NEW CLR LIBRARY FOR ANSYS HFSS RELEASED

Microwave Journal
microwavejournal.com, December 2015

Advanced, substrate-scalable, high-accuracy parasitic models from Modelithics (representing nearly 9,000 components from leading vendors) are now compatible with the latest version of ANSYS Electronics Desktop and ANSYS HFSS electromagnetic (EM) simulation software.

GE AND ANSYS TEAM UP TO BRING IoT DATA INTO SIMULATIONS

Engineering.com
engineering.com , October 2015

GE's Predix industrial Internet platform is the world's only industrial cloud offering designed specifically for industrial data and analytics across such industries as aviation, transportation, oil and gas, and healthcare. Organizations use this platform to create innovative Industrial Internet applications that turn real-time operational data into insight for better and faster decision-making while maximizing machine efficiency. ANSYS has joined this program to combine the power of their leading engineering simulation platform with the first and only industrial cloud offering for industrial data and analytics.

"With ANSYS, we look forward to giving our customers the tools they need to adopt digital technologies and software to drive better outcomes for their businesses."

— Harel Kodesh, Vice President, Predix

COMPUTER SIMULATION REVEALS HOW QUICKLY INFECTIONS SPREAD THROUGH HOSPITAL WARDS

Mail Online
dailymail.co.uk, September 2015

By combining biological experimentation, hospital observation and simulation with ANSYS software, researchers at the University of Leeds can better understand how healthcare workers are exposed to and spread germs. They determined that the hands of those who work in a four-bed ward are one-fifth more likely to spread germs than those who work in rooms occupied by one or two patients.