News & Updates

March | 2022

Revolution in Simulation is an industry initiative for educating, advocating, collaborating, and innovating to make the use of current, emerging, and future engineering simulation technologies not just more capable and efficient for the CAE expert, but more accessible and reliable for non-experts – what we call "The Democratization of Simulation".

Learn more at rev-sim.org.

WHAT'S NEW?

Case Study:
Siemens uses LES simulation to investigate transient combustion effects

Simulation Leaders:
These organizations and companies are helping to advance engineering simulation

Learn From Your Peers Webinars:
In our webinar series manufacturers discuss deployment of next-generation simulation technologies including the challenges, solutions, benefits, and lessons learned along the way

Industry Interviews:
Learn what editors, analysis, and other industry leaders are saying about simulation in these interviews

Do Non-CAE Experts Run Simulations During Your Product Development Process?

Got 5 minutes?
Please take our survey and you'll have a shot at a **$100 gift card!**

off to the survey!

1 on 1 with: John Chawner

In this Rev-Sim interview, Cadence Sr. Group Director, John Chawner (past President and Co-Founder of Pointwise) shares his thoughts on CFD simulation, the CFD Vision 2030 Integration Committee, and a host of related topics.

Read the interview here.

more interviews here

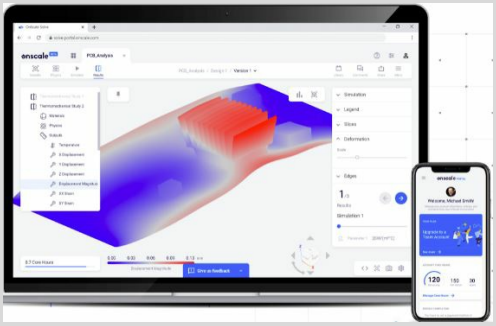
Case Study: Efficiencies that Speed Lap Time

Motorsports teams must equip their drivers with the highest quality, fastest, and most nimble tools - their cars. As the bar for design ingenuity keeps getting raised, the Carlin team needed to be intentional about choosing solutions that make most efficient use of design time.

Read the case study here.

more case studies

Sponsor Spotlight: OnScale



OnScale CAE tools give engineers a wealth of design insights and highly accurate simulation results up to 100x faster than legacy CAE offerings. Current solutions address the simulation needs of Semiconductor and MEMS, 5G mobile, next-gen biomedical, and autonomous vehicle markets.

learn more

Our Newest Sponsor: Diabatix

Through the powerful combination of AI and generative design, Diabatix

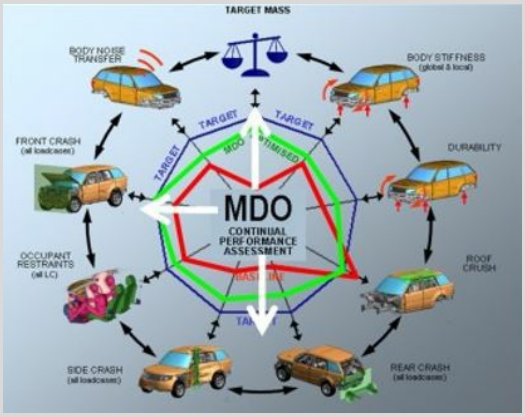
software users can design, analyze, and optimize heat sinks and cold plates with extreme speed and efficiency.

The Diabatix ColdStream 2 platform is going next level in selecting or generating heat sink design for a much broader scope. Making it even more cost and time efficient and bringing you one step ahead of the competition.

Register and reserve your spot for the
COLDSTREAM 2 LAUNCH
April 7, 2022

learn more

How it Works: Multidisciplinary Design Optimization



Many disciplines are involved in the design of a car body, each with its own objective and requirements. A stylist may suggest a shape that is visually appealing but is aerodynamically inefficient. Or the safety team may propose material to achieve a 5-star crash rating but is poor from an NVH perspective. The goal of MDO is to balance competing requirements to optimize the overall system.

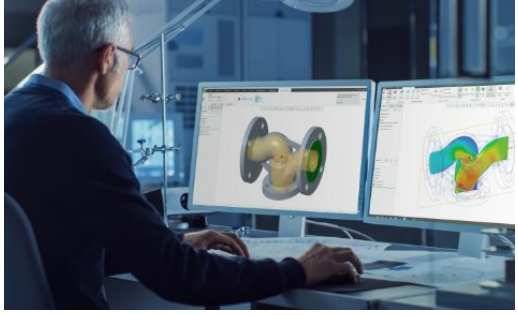
learn more

"Learn from Your Peers" Webinars

How Caterpillar Designers & Engineers Optimize Product Design using Simulation - Heavy Industrials Case Study

March 22, 2022
9:00 AM (Eastern US)

This webinar case study, presented by Sam Showman of Caterpillar, will illustrate how



Caterpillar has enabled both their designers and expert engineers to incorporate complex simulation early in the design phase.

Information & Registration

Leveraging AI to Tackle Complex Engineering Challenges: Featuring Practical Customer Case Studies

April 19, 2022
11:00 AM (Eastern US)

This webinar will showcase how Maya HTT's clients are successful in leveraging data and enable non-data scientists to leverage AI technologies.

Information & Registration

Upcoming Events

MARCH

Modern CFD Methods for a Changing World – Weekly Webinar Series
March 17- April 2

How Caterpillar Designers & Engineers Optimize Product Design using Simulation - A Heavy Industrials Case Study
March 22

Accelerating the Design-to-Prototype Cycle of Medical Devices with Withings
March 22

NAFEMS E-Learning: Composite Finite Element Analysis
March 18 through April 22

Advances in Structural Dynamic Simulation
March 29-30

APRIL

Session 3: Hands-on Simulation – Frontloading CFD with Simcenter FLOEFD (Electric Vehicle Engineering)
April 5

EV Battery Module Design: A Real-World Cloud-Powered Simulation Case
April 5

Discover the future of heat sink design with ColdStream 2
April 7

Leveraging design-stage simulation work throughout the product lifecycle
April 7

Cooling Performance Optimization of Electric Vehicle Batteries
April 12

Automated Mesh Refinement and Advanced Physics for Rotating Equipment
April 13

Leveraging AI to Tackle Complex Engineering Challenges: Featuring Practical Customer Case Studies
April 19

MAY

2022 ASSESS Congress
May 1-3

Session 4: Hands-on Simulation – Frontloading CFD with Simcenter FLOEFD (Building Simulation)
May 3

lots more!