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REVOLUTION in simulation

News & Events About Engineering Simulation

Spring 2020

[Revolution in Simulation](#) is an industry initiative for educating, advocating, collaborating, and innovating to make the use of 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". [Rev-Sim.org](#) provides expertly curated resources through an open community platform to share the latest industry [news](#), [events](#), [case studies](#), [blogs](#), [whitepapers](#), [webinars](#), [best practices](#), [consultant advice](#), and [solutions providers](#) to help democratize simulation for the benefit of faster and more robust development cycles.

Explore [Rev-Sim.Org](#)

Please help build the Democratizing Simulation community by forwarding this newsletter to a colleague or your followers. Its that easy.



Rev-Sim / NAFEMS Webinars

**ACHIEVING PERVASIVE ENGINEERING
SIMULATION: 2020-2030**
EXPLORING THE IMPACT OF SYSTEMS THINKING & MODEL-BASED ENGINEERING

CO-HOSTED BY NAFEMS REVOLUTION
in simulation

[The Digital Thread & SPDM: Will This Bring Simulation out of the Shadows?](#)

June 11, 2020 - 11:00 AM (EDT)

[Model-Based Engineering: How Critical is Simulation to a Model-Based Enterprise?](#)

June 23, 2020 - 6:00 PM (EDT)

Creating Intuitive Software to Enhance Physical Product Offerings at Hyde Marine



Most Tesla car owners would agree that over-the-air updates are their favorite feature. The car gets better with time as software updates improve the driver's experience. Hyde Marine has applied this principle to their products by using EASA to create highly intuitive, fit-for-purpose apps that enhance their customers' experience. Read the case study [here](#).

[More Case Studies](#)

CAASE20

The Conference on Advancing Analysis & Simulation in Engineering

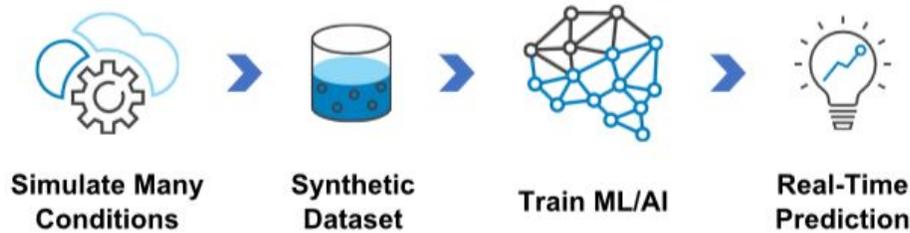
Virtual Conference • June 16th - 18th

Co-hosted by:  **NAFEMS** 

CAASE20 has been reformatted as an on-line virtual conference. Get more information [here](#).

Rev-Sim Guest Blog

"Synthetic Data" To Train ML/AI



OnScale CTO, Dr. David Freed shares his views on the coming decade. He believes that engineering simulation will be hugely impacted by, and become inextricably entwined with, machine learning / artificial intelligence (ML/AI). Do you agree? Read all about it in this Rev-Sim Guest Post!

[Read it Here](#)



[Multiphysics Simulation](#)

The newest addition to our "How it Works" section is Multiphysics Simulation (MPS). There are many problems where multiple physics fields are important and interact, which means they must be considered together to achieve accurate engineering predictions. The use of engineering simulation to analyze such problems requires MPS, in which multiple physical fields concurrently drive the behavior of a design.

[Glossary of Terms](#)

What is Numerical Simulation? What is Pervasive Engineering Simulation? Get the answer to these and other questions in our newly-added glossary of simulation terms. Do you have a term that we should include in our glossary? If so, [contact us](#) to submit your suggested term.

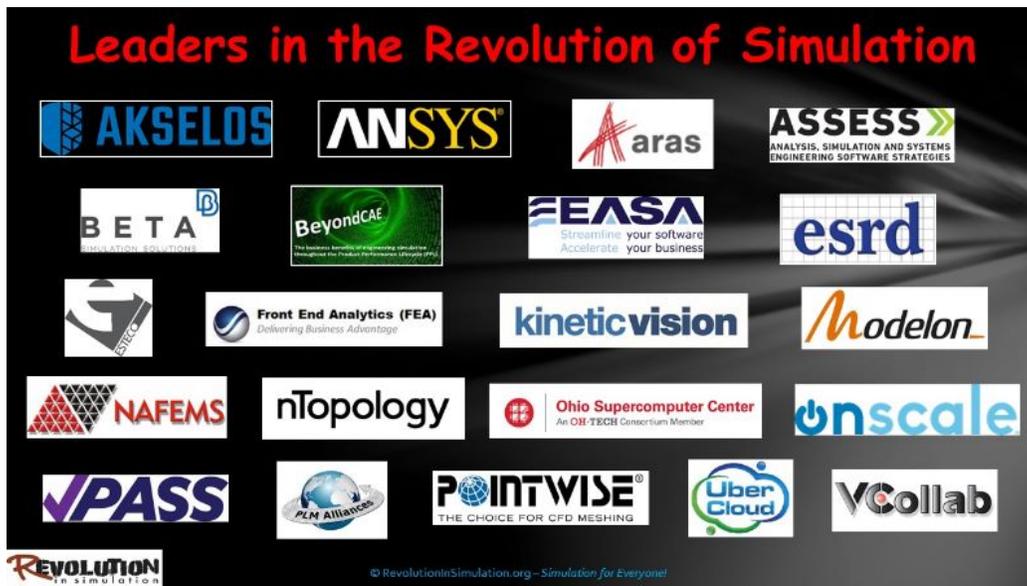
Our Newest Sponsors



[BETA CAE](#) pioneered the Simulation and Analysis market by introducing automation decades ago. Today, as simulation becomes imperative in product design and development, standing by our founding values, we are a world leader in CAE and we continue to amaze with our innovative solutions.



[AKSELOS](#) simulation models push the boundaries of what modern engineering can achieve. The technology allows for high fidelity simulations of large, complex assets, to optimize engineering processes, asset integrity and sustainability throughout the asset lifecycle.



Each sponsor is a technology thought leader that offers software or services which make simulation not only more capable and powerful for the expert, but also more usable and reliable for the new user or non-CAE specialist.

Our Sponsors

Sponsor Spotlight



With over 40 years and more than 3,000 people focused on the design and simulation needs of engineers and other professionals, ANSYS provides an unparalleled array of tools for everything from concept and product design to in-depth validation. Our tools enable engineers, doctors, scientists, and others to understand and optimize the structural, thermal, fluid, and electronic performances of products. We're passionate about democratizing and pushing the limits of world-class simulation technology so our customers can turn their design concepts into successful, innovative products faster and at lower cost.

Join [Ansys Simulation World](#) (June 10-11). As the world's largest free online virtual reality conference, this event is focused on leveraging the power of leading-edge engineering simulation.

[Learn More](#)

Webinar Recording: Pervasive Systems Thinking & Simulation - Who, What, Where, Why, & How?

This webinar establishes a fundamental understanding of Systems Thinking as a critical complement to the reductionist design approach. We explore the need for pervasive simulation across the entire product lifecycle as a critical tool for the design, manufacture, and maintenance of tomorrow's interconnected multidisciplinary products.

[View Recording](#)

Upcoming Events

[Ansys Simulation World](#)
June 10-11

[Webinar: The Digital Thread & SPDM](#)

June 11

[Webinar: Offshore Wind](#)

June, 23

[Model-Based Engineering: How Critical is Simulation for a Model-Based Enterprise?](#)

June, 23

[Digital Twins Forum](#)

July, 7-8: Atlanta, GA (USA)

[30th INCOSE International Symposium](#)

July, 18-23: Cape Town (South Africa)

[See More](#)



"A little revolution now and then is a healthy thing. Don't you think?"

Marko Ramius, Commander Red October

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