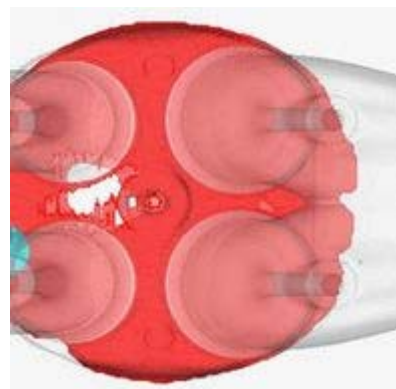


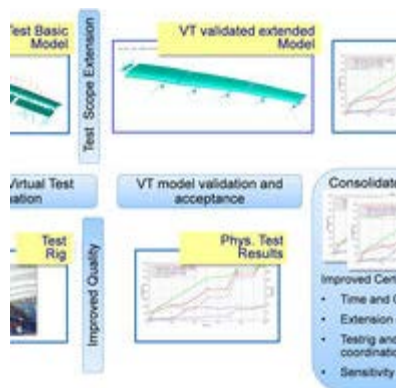
From: SAE Customer Service
Sent: Monday, September 23, 2013 9:31 AM
To: Stephanie Stroud
Subject: SAE Test & Measurement Technology eNewsletter September 2013

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Finding the virtual knock-limit

Engineering efficient gasoline engines is more important than ever. However, using physical testing alone to determine an engine's maximum efficiency is expensive. Fortunately, simulating knock phenomenon with CAE is more feasible than ever. [Read full story](#)



Airbus combines physical/virtual to ensure accurate results

Rising system complexity and shortened development cycles have led to the need for an extension of the existing, classical test methods. The Airbus High Lift Test Department is pursuing virtual testing as an additional, equivalent test means besides existing, established physical means of compliance. [Read full story](#)

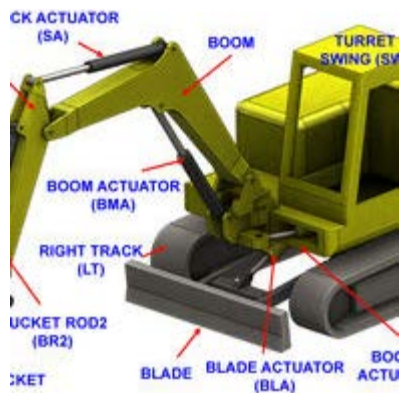


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Modeling and simulating hydraulic circuits

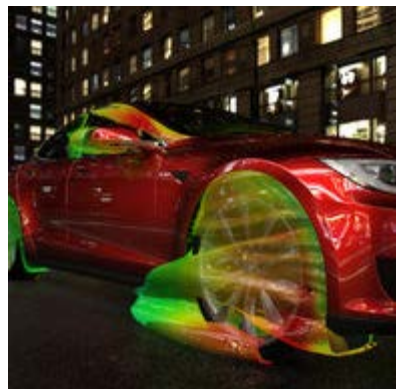
Researchers address some aspects regarding the modeling of a hydraulic circuit of a commercial excavator. [Read full story](#)



Tesla Model S designers tackle drag head-on with CFD

Simulation made it possible to quickly analyze design iterations and optimize exterior surfaces such as the Tesla Model S front, A-pillars, and other design features critical for aerodynamics.

[Read full story](#)



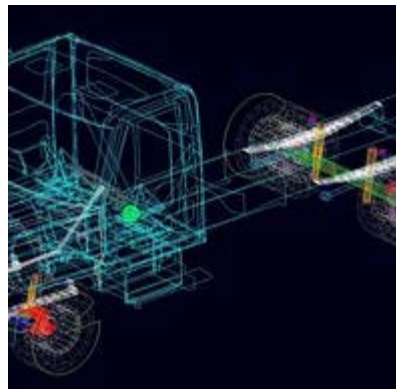
Putting a tighter spin on engine component balancing

Vibration-induced shaking of a part wastes energy, increases noise, boosts stresses on associated components, and accelerates bearing wear. Eventually, vibration can degrade an entire machine and significantly raise maintenance and replacement costs. [Read full story](#)



Multibody dynamics aids in development of customizable commercial vehicles

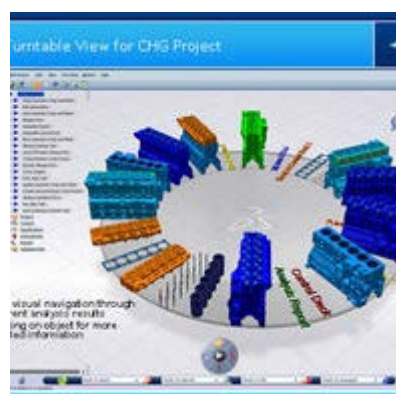
To leverage economies of scale, it is common practice in the industry to share the same platform for multiple vocations, and also adapt different components such as suspension, frame components, engine, cab, and other body components. To accomplish this, one platform has to be developed to have robustness for many different applications, such as bus and/or utility vehicles. [Read full story](#)



Accelerating product design with SLM

Frank Popielas, Senior Manager of Advanced Engineering in the Dana Power Technologies Group and head of CAE for Dana, spoke with AEI Assistant Editor Matthew Monaghan about Dana's emphasis on innovation, supported by the right engineering tools. [Read full story](#)





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