From: SAE Customer Service

Sent: Monday, August 12, 2013 1:31 PM

To: Stephanie Stroud

Subject: Aerospace Engineering Technology eNewsletter August 2013





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Aluminum in the air

Constellium provides a close focus on how waste material is recovered and reused through the supply-chain manufacturing process up to the time when the airframe is eventually dismantled after a lifetime of service use. Read full story

IOLOGY ENEWSLETTER



Solar Impulse team's next challenge: To circle the globe

The next world-girdling version of the fuel-less flier will rely on featherweight polymers and composites. Read full story





Improve RADAR System Design and Test

Body: Designing and testing RADAR systems requires a sophisticated combination of hardware and software. Discover how to simulate the front end of a RADAR system in software and prototype the same system using physical hardware to accelerate the testing of new RADAR technology. Examples of this technology include sophisticated signal processing operations to determine the velocity of the target and ways to mitigate some of real-world environmental conditions. Watch the webcast.

Fine-tuning vibro-acoustic countermeasures in a turboprop aircraft

Turboprop engines are gaining popularity for their fuel-consumption advantages, but they also generate substantial noise, so reducing cabin noise to ensure passenger comfort is an important engineering challenge. Read full story

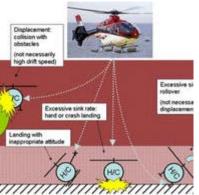
Dual Function Valve

The Lee Company's new 375 PRI®Chek® Valve combines the function of a pressure relief valve in parallel with a check valve into one easy to install insert. The relief valve function features a rugged Tungsten Carbide ball and a 440C seat for durability and long life. The remaining components are constructed entirely of stainless steel. The valve is available in a range of relief flow cracking pressures for system pressures up to 5000 psi.



Aerospace to help ignite 3-D printing boom

Touted as an enabling platform for applications ranging from personalized medicine to personal drones, 3-D printing will grow to an \$8.4 billion market in 2025—up from \$777 million in 2012, according to a recent report by Lux Research. Read full story



The DEVILA is in the details of software integration for safety avionics

The decreasing relative cost of electronics and the pace of electronics development have significantly increased the need to adopt modern commercial off-theshelf computing architectures in avionics.

Read full story



Free-piston IC generator developed for range-extender hybrids

In this engine developed at Germany's DLR, pistons cycle back and forth through a linear generator to augment battery power. Read full story







The changing face of manned spacecraft

The key to sustainable space transportation is reliable, safe, and affordable vehicles that can be used over and over again in much the same way



that global air transport is accepted today. Read full story

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JEC Americas Composites Show & Conferences

Composite industry leaders from around the globe return this fall for the second edition at the Boston Convention and Exhibition Center, Oct. 2—4, 2013. This event provides the region's premiere venue for composites professionals to gain a competitive edge in this important market.

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