

From: SAE International <SAE_AERO_INFO@sae.org>
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To: Stephanie Stroud
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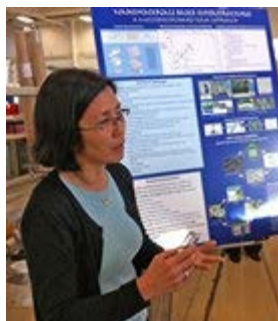
September 2013

*Technology Tools for **Aerospace Professionals***



Efficiency & Emissions: Focus on Lightweighting

Automakers are in overdrive to meet the U.S. federal mandate for a 54.5-mpg fleet average in the 2025MY. That's in addition to a bevy of other upcoming governmental fuel economy and CO₂ emissions regulations from around the globe they must comply. Meanwhile, in the aerospace industry, ever-rising gas prices have made increasing the effectiveness of fuel burned an even greater priority. Mass reduction technology or lightweighting through the use of advanced materials is a promising path towards helping to lower fuel consumption and vehicle CO₂ emissions. SAE International, known for its globally accepted AMS documents (Aerospace Materials Standards) can help industry in its quest for lighter, greener vehicles with a variety of resources, some of which are highlighted in this month's newsletter. [What do you think?](#)



[NASA Langley explores nanomaterials for next-gen structures](#)

- Mia Siochi (pictured) and other researchers at NASA Langley are looking beyond the current state-of-the-art lightweight material—carbon-fiber composites—to promising nanostructured materials, namely carbon nanotube composites.

[Lightweight hinge for heavy doors](#)

Analyze buses time-synchronously: 
**CAN, AFDX[®],
ARINC, ...**



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[Recent Developments in Aerospace
Manufacturing, Materials, & Structures
SAE Technical Paper Collection](#)

The 18 papers in this technical paper collection focus on aircraft coatings technologies; advanced metal materials, fabrication, and joining processes; advanced low cost aircraft structures; and more...



[SAE 2013 AeroTech Congress &
Exhibition](#)

September 24-26, 2013
Montreal, Quebec, Canada

SAE's biennial gathering of the world's top aerospace professionals will feature [technical sessions](#) on Environmental Impact and Materials/Structures: Trimming, Drilling, & Assembly of Composites Structures (Code: ATC910); Advanced Low Cost Aircraft Structures (Code: ATC911); Composites Fabrications and Joining (Code: ATC901); Sustainable Materials and Processes (Code: ATC603)



[NEW! Introduction to Composites
Fabrication and Assembly in
Aerospace, Space, and Transportation
Seminar](#)

October 28, 2013

This one day seminar will introduce participants to composites technologies that have applications beyond aerospace, including such markets as trucks, automobiles, and wind turbines.





NEW! [Automotive Composites Technology Engineering Academy](#)

November 11-15, 2013

Troy, Michigan, USA

This course will provide an overview of different composite materials in terms of material types such as carbon, glass and natural fibers.



More SAE International Aerospace Resources

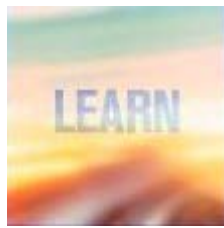
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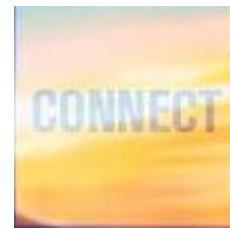
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- SAE International Standards Development: Known throughout the world for its Aerospace Material Standards (AMS), offers 32 materials related technical committees including those that address elastomers, polymerics, composites, and non-ferrous alloys [Learn more](#). [Express interest](#).



- [Engineered Tribological Composites - The Art of Friction Material Development](#) - *Print and eBook available*
- [Lightweight Materials: Understanding the Basics](#) - *eBook only*
- [Weight Reduction in Automotive Design and Manufacture](#) - *eBook only*



- **Free Industry Reports!**
Valuable technical insight and career guidance on New Materials, and more—[download them NOW!](#)
- [Events coming in 2014:](#)
SAE Design, Tooling & Manufacture of Composites, Summer 2014, Madrid, Spain;
SAE Aerospace Manufacturing & Automated Fastening Conference/Exhibition, Fall, Salt Lake City, Utah, USA

- See yourself in the SAE technical session development process for SAE events related to Manufacturing, Materials, & Structures? Become involved by contacting Joan Hudson at jhudson@sae.org

- [Composite Materials Handbook Set Volumes 1, 2, and 3](#)
- And, coming this fall: [Composite Materials Handbook Volume 6. Structural Sandwich Composites](#); [Composite Materials Handbook Volume 4. Metal Matrix Composites](#)
- [Advanced High Strength Steels for Vehicle Weight Reduction Seminar](#)
- **NEW!** [Damage Tolerance for Gas Turbine Engines Seminar](#)

Partner Events

[AUVSI's Unmanned Systems Europe 2013](#)

October 15 – 16, 2013

Köln, Germany

Register today for this dynamic conference packed with a great line-up of speakers representing international regulatory agencies as well as civil and commercial Remotely Piloted Aircraft Systems (RPAS) end users. Don't miss outstanding keynote presentations addressing the most important trends, advancements and information impacting the RPAS industry!

SAE International is a Supporting Organization for this event.

[Annual Conference of the Prognostics and Health Management Society \(PHM\) 2013](#)

October 14 – 17, 2013

New Orleans, LA, USA

The Annual Conference of the PHM Society 2013 will bring together the global community of PHM experts from industry, academia, and government in diverse application areas such as energy, aerospace, transportation, automotive, and industrial automation. All those interested in the theory and practice of prognostics and health management are welcome!

SAE International is a Technical Co-sponsor for this event.

SAE International | 400 Commonwealth Drive | Warrendale, PA 15096-0001 USA | [Contact Us](#)

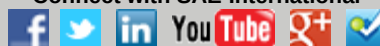
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