



# Move with SAE Mobilus<sup>®</sup> Technical Resource Platform

*October 2020 Newsletter*

## **October 2020 Move with SAE Mobilus Newsletter**

The following is a summary of all publications added to the SAE Mobilus technical resource platform in September 2020. Selecting a content type below will display the SAE Mobilus search results for the content type selected.

- [SAE Aerospace Standards \(74\)](#)
- [SAE Aerospace Material Specifications \(15\)](#)
- [SAE Ground Vehicle Standards \(13\)](#)
- [SAE Journal Articles \(17\)](#)
- [SAE Technical Papers \(490\)](#)
- [SAE EDGE Research Reports \(3\)](#)
- [SAE Professional Development](#)
- [SAE Books](#)
- [SAE Magazine Articles \(27\)](#)
- [SAE Membership Information](#)

[Learn more](#) about how SAE is responding to the coronavirus (COVID-19) pandemic.

Please note, your ability to access the publications listed is dependent on your subscription to SAE Mobilus. If a publication is outside of your subscription, please contact your organization's SAE Mobilus administrator.

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## October 2020 Move with SAE Mobilus Webinar Series

**October 21<sup>st</sup>, 2020 | 11 a.m. EST**

Sign up for our monthly webinar series, hosted by our SAE Customer Success Specialist, Angela Kenner. This series, held every 3<sup>rd</sup> Wednesday at 11 a.m. EST, will highlight newly released SAE publications, LIVE Q&A with guest speakers and allow for our audience to engage with our team and content.

### **Guest Speakers:**

October's guest speakers are [Rohit Saha, Technical Advisor at Cummins](#), and Terri Stange, Sr. Manager Strategic Accounts at SAE International. This October session will elaborate more on how the [SAE Mobilus technical resource platform](#) gives the Cummins engineering team's thought-leaders a means to transfer knowledge to the next generation of engineers and utilize the platform as a [market research tool](#).

**Listen & engage as we dive into new SAE publications and topic trends available on the platform, learning more on how the Cummins team uses this resource to inspire creative solutions and advance novel technologies**

[Sign Up](#)

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### **NEW SAE Case Study**

With the onset of COVID-19, society will be met with a need to pivot resources to face new challenges in mobility, such as an increase in individuals owning cars and more vehicles on the road. SAE International, partnered with Eaton, is proud to present a case study on how thought leaders like Dr. Jim McCarthy, Jr., Chief Engineer of Vehicle Technologies and Innovation at Eaton is working with SAE on **developing the engineers of the future**.

Read more on how SAE is providing creative solutions to meet these challenges and invest in the future of mobility.

[Learn More](#)

### **SAE Aerospace Standards and Aerospace Material Specifications (89):**

- [AS36100C - Air Cargo Unit Load Devices - Performance Requirements and Test Parameters](#)
- [AIR5387-Airport Electrical Power System Harmonics](#)
- [SAE1010 - Standard Practice for Manpower and Personnel](#)

- [AIR7501 - Aircraft Asset Lifecycle and Digital Data Standards Overview](#)
- [ARP6299 - Procedure for Thermal Aging Test for Polyol Ester Gas Turbine Engine Lubricants](#)

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### **SAE Ground Vehicle Standards (13):**

- [J2847/6\\_202009- Communication for Wireless Power Transfer Between Light-Duty Plug-in Electric Vehicles and Wireless EV Charging Stations](#)
- [J3204\\_202009- Aftermarket Composite Wheels Made of Matrix Material and Fiber Reinforcement Intended for Normal Highway Use - Test Procedures and Performance Requirements](#)
- [J1101\\_202009- Test Procedure for Parking Stability of Motorcycles](#)
- [J846\\_202009- Coding Systems for Identification of Fluid Conductors and Connectors](#)
- [J2912\\_202009- Performance Requirements for R-134a and R-1234yf Refrigerant Diagnostic Identifiers \(RDI\) for Use with Mobile Air Conditioning Systems](#)

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### **SAE Technical Papers (490):**

- [2020-01-1504 - Prediction of Acoustic Emissions of Turbocharger Bearings](#)
- [2020-01-2256 - Performance Analysis and Economic Feasibility of Fuel Cell Vehicles: A Perspective Review](#)
- [2020-01-2026 - Infrared Diagnostics of a Li-Polymer Battery for the Estimation of the Surface Temperature Distribution and the Heat Transfer Parameters](#)
- [2020-01-1506 - Generic Methodology for Vibration and Wear Analysis to Understand Their Influences in an Electric Drivetrain](#)
- [2020-01-2165 - Energy Demand Assessment for Long Term Operation of Vehicles](#)

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## SAE Journal Articles (17):

- [13-01-02-0007 - Artificial Intelligence-Based Performance Optimization of Electric Vehicle-to-Home Energy Management System](#)
- [05-14-01-0008 - Introduction of New Materials in the Automotive Industry: A Case Study-Based Framework](#)
- [01-14-01-0002 - Characterization of Particulate Resulting from Oil Contamination of Aircraft Bleed Air](#)
- [05-14-01-0007 - Materials and Technologies for Lightweighting of Structural Parts for Automotive Applications: A Review](#)
- [03-13-05-0039 – Review of Additive Manufacturing for Internal Combustion Engine Components](#)

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## SAE EDGE™ Research Reports (3):

- [Unsettled Topics on Nondestructive Testing of Additively Manufactured Parts in the Mobility Industry](#)
- [Unsettled Technology Domains in Industrial Smart Assembly Tools Supporting Industry 4.0](#)
- [Unsettled Technology Domains for Rapid and Automated Verification of Industry 4.0 Machine Tools](#)

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## SAE Professional Development:

We provide **high impact, industry-applicable** training programs and credentials specifically designed to advance career development. Our portfolio of hundreds of **classroom, web-delivered, and on-demand online courses** are delivered in the U.S., Europe, and Asia for individuals or as private offerings for groups within companies.

Developed and **taught by more than 150 instructors from industry and academia**, our courses address key technical drivers, technologies, regulations, and business/management topics across the aerospace, automotive, and commercial vehicle industries.

[Browse the Catalog](#)

### SAE Books:

SAE Books is proud to present a new title that combines education and instruction with fun, laughter and motivation. **How to Manage the Perfect Factory or How AS6500 Can Lead To Everlasting Happiness** gently pokes fun at the people and organizational barriers that the Manufacturing function must overcome to make those obstacles seem more surmountable while providing key information on implementing AS6500.

View a sample [here](#).

[View Full Version](#)

### SAE Events:

SAE is committed to bringing together global industry experts and we are here to help the mobility industry stay connected during these changing times.

#### Feature SAE Event:

#### Upcoming October Events, Online & On-Demand

[BRAKE Colloquium Digital Summit](#) | October 12-13

Browse our fall 2020 events and learn more on how to connect with key mobility professionals across the industry, gain access to valuable cutting-edge resources on the advancements in the key technologies and access to hundreds of expert-led panels.

[Browse Events](#)

### SAE Membership Information:

Enjoy access to discounted technical resources, career advancement tools, networking opportunities and more as an SAE Member (*Not a member? Join now at [sae.org/join](http://sae.org/join)*). Here's the latest happenings and benefits:

- FREE trial of [Member Connection](#) through November 30, take advantage of your free trial of SAE's members only discussion forum. Members are currently talking about: "Would you buy a vehicle made in Russia?" and pros and cons of nuclear energy.
- [Chat with the Expert in Member Connection](#) October 20 - 21: Join [CADIA](#) CEO and founder, Cheryl Thompson, to discuss diversity, inclusion, and advancement within the automotive industry. Why is diversity in an organization important?

[Become an SAE Member](#)