



*July 2021 Newsletter*

## **July 2021 Move with SAE Mobilus® Newsletter**

The following is a summary of all publications added to the SAE Mobilus technical resource platform in June 2021. Selecting a content type below will display the SAE Mobilus search results for the content type selected.

- [SAE Aerospace Standards \(55\)](#)
- [SAE Aerospace Material Specifications \(18\)](#)
- [SAE Ground Vehicle Standards \(20\)](#)
- [SAE Technical Papers \(20\)](#)
- **NEW** [2021 Top Downloaded Technical Papers](#)
- [SAE Journal Articles \(15\)](#)
- [SAE EDGE Research Reports \(2\)](#)
- [SAE Books \(3\)](#)
- [SAE Magazine Articles \(65\)](#)

### **Additional SAE Solutions:**

- [Move with SAE Mobilus Webinar Series](#)
- [SAE Professional Development](#)
- [SAE Events](#)
- [SAE Membership & Community Engagement](#)
- **NEW** [SAE Bi-Annual Aerospace Standards Newsletter](#)
- **NEW** [Learn More on the MobilityRxiv™](#)

[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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## Move with SAE Mobilus Webinar Series

Wednesday July 21<sup>st</sup>, 2021 | 11 a.m. EST

[Join the Discussion – The Future of Additive Manufacturing](#): Eliana Fu, Industry Manager, Aerospace & Medical at TRUMPF NA & Dr. Kevin Slattery, Principal ADDvisor at The Barnes Global Advisors.

New to the Movement? [Learn More.](#)

[Join the Movement](#)

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## SAE Aerospace Standards & Aerospace Material Specifications (73)

- [AIR6280 – Overview of Aircraft landing Gear Shimmy Analysis Methods](#)
- [AIR6811 - Equivalence of Equipment Environmental Qualification Standards for Civil and Military Aircraft Equipment](#)
- [AIR6108 - Engine Electronic Unit Fire and Overheat Design Guide](#)
- [AMS7023 - Gamma Titanium-Aluminide Powder for Additive Manufacturing Ti - 48Al - 2Nb - 2Cr](#)
- [AS6837 - Required O-ring Sizes for Quality Conformance Testing](#)

[View All](#)

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## SAE Ground Vehicle Standards (20):

- [J826\\_202106 - Devices for Use in Defining and Measuring Vehicle Seating Accommodation](#)
- [J2953/4\\_202106 - Plug-in Electrical Vehicle Charge Rate Reporting and Test Procedures](#)
- [J2836/4\\_202106 - Use Cases for Diagnostic Communication for Plug-in Electric Vehicles](#)
- [JA3163\\_202106 - Taxonomy of On-Demand and Shared Mobility: Ground, Aviation, and Marine](#)
- [J2978\\_202106 - Truck and Bus Coastdown Procedure](#)

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## SAE Technical Papers (20):

- [2021-01-1000 - The Role of Safety Critical Architecture in an Evolving Ecosystem](#)
- [2021-01-1005 - Taking a Hybrid \(Analog Beamsteering + Digital Signaling\) Approach to Automotive Radar to Advance a Myriad of Highly Automated Driving Applications on the Road to Full Autonomy](#)
- [2021-01-1011 - Autonomous Vehicle Safety Assessment with Fully Quantified ODDs](#)
- [2021-01-1013 - Roadside Lidar Helping to Build Smart and Safe Transportation Infrastructure](#)
- [2021-01-1014 - Estimation of Gasoline Engine Emissions from Cylinder Pressure Parameters: Artificial Neural Network Approach](#)

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## NEW 2021 Top 5 Downloaded SAE Technical Papers:

- [2021-01-0575: Review of Vehicle Engine Efficiency and Emissions](#)
- [2020-28-002: Thermal Management System and Performance Characteristics of Electric Vehicle](#)
- [2021-01-0740: Development of High-Performance FC Stack for the New MIRAI](#)
- [2020-01-5086: Modelling of Electric Vehicles Using Matlab/Simulink](#)
- [2021-01-0286: Crash Performance of Steel, Aluminum and Carbon Fiber Composite Bumper Beams with Steel Crush Cans](#)

## SAE Journal Articles (15):

- [14-10-02-0016 - Comparison of Permanent Magnet Rotor Designs for Different Vehicle Classes and Driving Scenarios: A Simulation Study](#)
- [09-09-02-0004 - Quantitative Assessment of Minor Incidents to Accident Transformation Probability and Its Impact on Aerodrome Operations](#)
- [06-14-02-0006 - Characteristics Analyses of Innovative Crank-Lever Electromagnetic Damper for Suspension System of an Off-Road Vehicle](#)
- [02-15-01-0001 - Linear and Nonlinear Analysis of Ride and Stability of a Three-Wheeled Vehicle Subjected to Random and Bump Inputs Using Bond Graph and Simulink Methodology](#)
- [10-05-04-0031 - Analyzing the Accuracy of the Air Suspension System Models Based on Two Different Calculation Methods](#)

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## SAE Professional Development:

### [Additive Manufacturing Bundle | PD281743](#)

AM is a versatile field that encompasses a variety of methods, materials, and applications. The one-hour courses in this bundle explain the fundamental concepts of additive manufacturing, including the **main principles behind AM and the safety precautions** to take during the process.

[Learn More](#)

## SAE EDGE™ Research Reports (2):

- [Unsettled Issues in Advanced Air Mobility Certification](#)
- [Unsettled Issues on HD Mapping Technology for Autonomous Driving and ADAS](#)

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## SAE Events:

### What NVC offers:

**3.5** days of networking

**1,000+** attendees

**80+** exhibitors

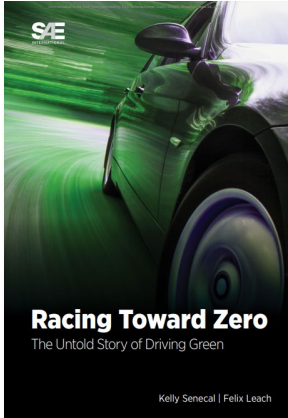
**130+** technical presentations

### Noise and Vibration Conference & Exhibition:

Through technical sessions, workshops, panels, an exhibition, and numerous critical networking opportunities, you will learn how industry pacesetters are addressing challenges such as noise source identification, vibration prevention, and harshness reduction.

[View All](#)

## SAE Book Spotlight:



Kelly Senecal & Felix Leach

In ***Racing Toward Zero***, the authors explore the issues inherent in developing sustainable transportation. They review the types of propulsion systems and vehicle options, discuss low-carbon fuels and alternative energy sources, and examine the role of regulation in curbing emissions.

Read it!

## SAE Membership & Community Engagement:

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

- [Chat with the Experts, Vehicle Dynamics](#): July 27 – 28, join SAE Members Tim Drotar, Ford, Darrell Hokpins, Stellantis, and Daniel Williams, ZF Group in Member Connection.
- [Virtual Mentor Program Open House](#): Through August 31, share your most meaningful mentoring relationship, or your career advice for the next generation of engineers.

Learn More

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