



January 2021 Newsletter

January 2021 Move with SAE Mobilus® Newsletter

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

- [SAE Aerospace Standards](#) (61)
- [SAE Aerospace Material Specifications](#) (14)
- [SAE Ground Vehicle Standards](#) (23)
- [SAE Journal Articles](#) (10)
- [SAE Technical Papers](#) (114)
- [SAE EDGE Research Reports](#) (2)
- [SAE Professional Development](#)
- [SAE Books](#) (8)
- [SAE Magazine Articles](#) (62)
- [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.

Move with SAE Mobilus Features “Q & A with David K.”

January 20, 2020 | 11 a.m. EST

Q&A with David K, Where We Went in 2020 & Where We Are Going in 2021:

Join us for the 2021 Move with SAE Mobilus series kick-off webinar as we welcome special guest speakers, **David Kurywchak, SAE Vice President of Sales & Service, interviewed by Amy Shreckengost, SAE Intl. Sales Manager**, providing a 2020 recap of the Move with SAE Mobilus series and discuss what our viewers can expect in terms of SAE publications, events, professional development, guest speaker topics and more for the 2021 events.

This **FREE** series allows for engineering professionals from all industry sectors and roles to connect with industry leading experts and the SAE team.

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Move with SAE Mobilus Guest Speaker Collection

Watch and share previous guest speaker appearances from the Move with SAE Mobilus series by visiting our SAE International channel below, the Move with SAE Mobilus playlist.

[Watch Now](#)

Helping Science and Engineering Work Together: An SAE/ExxonMobil Case Study

Through science, we aim to answer the “why” and through engineering we find and apply solutions. But the art of communicating results ultimately determines a technology’s market impact. In a recent case study, we dove into the history of ExxonMobil and explored the success story of two trailblazers, Mike Ragomo, Products Operations & Testing Dept. Head, R&D, and Steve Kennedy, Senior Research Chemist. This story serves as a testament to the process of recognizing a need, developing a solution, and finding a way to successfully communicate the technology.

[Read Now](#)

SAE Aerospace Standards and Aerospace Material Specifications (75):

- [AS6870 - Nondestructive Inspection Program Requirements for Aerospace Systems](#)
- [AS6040A - JAUS HMI Service Set](#)
- [ARP5364A - Human Factor Considerations in the Design of Multifunction Display Systems for Civil Aircraft](#)
- [ARP5430A - Human Interface Criteria for Vertical Situation Awareness Displays](#)
- [AMS6891 - Carbon Fiber and Fiberglass Epoxy Prepreg Products with 350 °F \(177 °C\) Cure for Aerospace Applications](#)

[View All](#)

SAE Ground Vehicle Standards (23):

- [J1269_202012 - Rolling Resistance Measurement Procedure for Passenger Car, Light Truck, and Highway Truck and Bus Tires](#)
- [J1542_202012 - Laboratory Testing of Vehicle and Industrial Heat Exchangers for Thermal Cycle Durability](#)
- [J3018_202012 - Safety-Relevant Guidance for On-Road Testing of Prototype Automated Driving System \(ADS\)-Operated Vehicles](#)
- [J3039_202012 - Definition and Measurement of Power Transfer Unit Speed-Dependent Parasitic Loss](#)
- [J1939DA_202012 - J1939 Digital Annex](#)

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SAE Technical Papers (114):

- [2020-01-5148 - Assess the Performance of Electric Autonomous Taxi System Using a Data-Driven Simulation Model](#)
- [2020-01-5176 - Excavation of Attractive Areas for Car-Share Travel and Prediction of Car-Share Usage](#)
- [2020-01-5139 - Research on Digital Management System of Transport Infrastructure in the Era of Big Data](#)
- [2020-01-5127 - A Game Theory-Based Model Predictive Controller Considering Intension for Mandatory Lane Change](#)
- [2020-01-5161 - Research on Traffic Laws and Regulatory Framework for Autonomous Driving](#)

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SAE Journal Articles (10):

- [03-14-02-0015 - Numerical Investigation on Mixture Formation and Combustion Process of Innovative Piston Bowl Geometries in a Swirl-Supported Light-Duty Diesel Engine - Open Access!](#)
- [04-13-03-0017 - The Knock Propensity of Carbon Dioxide-Containing Natural Gases: Effect of Higher Hydrocarbons on Knock-Mitigating Influence of Carbon Dioxide](#)
- [06-13-03-0017 - Optimal Control of Path Tracking for Vehicle-Handling Dynamics](#)
- [13-01-02-0010 - Simulated Drag Study of Fuel Tank Configurations for Liquid Hydrogen-Powered Commercial Aircraft](#)
- [13-01-02-0009 - Metering Requirements and Design for an Electric Vehicle Charging System Providing Grid Services](#)

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SAE EDGE™ Research Reports (2):

- [Unsettled Topics Concerning Human and Autonomous Vehicle Interaction](#)
- [Unsettled Topics Concerning the Impact of Quantum Technologies on Automotive Cybersecurity](#)

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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.

New in 2021: [Robotics Micro-Credential Program](#)

Develop your technical knowledge in the high demand field of robotics and AI

Mobility companies today face a significant shortage of engineers with the skills needed to build autonomous vehicles (AV). It is not uncommon for companies to spend 8–12 months to fully onboard a newly hired engineer, even one with an advanced degree. The problem arises as a result of a gap between what is taught and learned in many engineering programs and the practical skills needed for AV design and development enterprises.

The SAE International Robotics Micro-Credential Program addresses these gaps with an intensive and rigorous learning program that features hands-on experiences that develop a technical understanding of building autonomous systems for self-driving vehicles.

[Register for the Course](#)

SAE eBooks:

- [Care and Repair of Advanced Composites, 3rd Edition](#)
- [Mobile Working Machines](#)
- [Aerospace Predictive Maintenance](#)
- [Noise, Vibration and Harshness of Electric and Hybrid Vehicles](#)
- [Introduction to Maintenance, Repair and Overhaul of Aircraft, Engines and Components](#)
- [Honda R&D Technical Review October 2020](#)
- [Binder and Polymer Assisted Powder Processing](#)
- [Energy Efficiency of Vehicles](#)

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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.

Upcoming Online & On-Demand Events:

- **Connect2Car@CES Digital Summit** | January 14, 2021
[Register](#) before the end of the week to take advantage of the early bird rate of \$99.
- **Government/Industry Digital Summit** | February 2-3, 2021
[Register](#) to attend today, members \$195, non-members \$395 through 1/26/2021.

Browse our 2021 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:

Here's the latest happenings and benefits:

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](https://www.sae.org/join)). Here's the latest happenings and benefits:

- January is National Mentoring Month – join us for [SAE's Mentor Month Celebration](#) and save the date for the next [Virtual Mentor Mixer](#) on stress management January 28 - 29.
- [Urban Mobility Series: Smart City Planning Strategies](#): Tuesday, February 16, 11:30 am – 12:45 pm ET. What smart city initiatives are worth investing and planning for?

Become an SAE Member

We believe you will benefit from this information, but if you would like to be removed from future SAE email communications, [click here to maintain your preferences](#).

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