



*February 2021 Newsletter*

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

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

- [SAE Aerospace Standards](#) (46)
- [SAE Aerospace Material Specifications](#) (8)
- [SAE Ground Vehicle Standards](#) (37)
- [SAE Journal Articles](#) (12)
- [SAE Technical Papers](#) (13)
- [SAE EDGE Research Reports](#) (3)
- [SAE Professional Development](#)
- [SAE Books](#)
- [SAE Magazine Articles](#) (51)
- [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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## Move with SAE Mobilus Webinar Series

February 17<sup>th</sup>, 2021 | 11 a.m. EST

### February Topic: Leadership & Mentor Insights from Women in Aerospace with Guest Speakers Rhonda Walthall & Brenda Mitchell

Join us for the Move with SAE Mobilus February 2021 episode featuring **Rhonda Walthall and Brenda Mitchell**, highlighting their new book with SAE, **Flight Paths to Success**. We'll learn more about their goals with the new book, their roles in Aerospace leadership, and their thoughts on the importance of mentorship in the aerospace industry.

#### February Bonus Segment:

**Beth Ellen Dibeler**, **SAE Product Manager**, will also give us an introduction into the SAE OnQue Digital Standards System, [Learn More](#).

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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## SAE Aerospace Standards & Aerospace Material Specifications (54):

- [Aircraft Electrical Voltage Level Definitions – AIR7502](#)
- [Designation of Direction of Rotation of Helicopter Rotors – ARP570B](#)
- [Guidelines for Characterization of Gas Turbine Engine Total-Pressure, Planar-Wave, and Total-Temperature Inlet-Flow Distortion – ARP6420](#)
- [Gas Turbine Jet Exhaust Noise Prediction – ARP876F](#)
- [Application of Pure-Tone Atmospheric Absorption Losses to One-Third Octave-Band Data – ARP5534](#)

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## SAE Ground Vehicle Standards (37):

- [J3214\\_0202101- Breath-Based Alcohol Detection System](#)
- [J1282\\_202101 - Snowmobile Brake Control Systems](#)
- [J1739\\_202101- Potential Failure Mode and Effects Analysis \(FMEA\) Including Design FMEA, Supplemental FMEA-MSR, and Process FMEA](#)
- [J3042\\_202101- Measuring Properties of Li-Ion Battery Electrolyte](#)
- [J2610\\_202101- Serial Data Communication Interface](#)

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## SAE Technical Papers (13):

- [2021-01-5021 – Mining Multi-Dimensional Weighted Association Rules in the Database of Dangerous Driving Scenes Based on a Hybrid Algorithm](#)
- [2021-01-5009 – Carbon Emission Research of Taxi Fleet from ICEV to BEV \(Shanghai Case\)](#)
- [2021-01-5011 – An Analysis of the Safety of Low-Speed Electric Vehicles in the Event of a Frontal Collision](#)
- [2021-01-5008 – Effect of Simulated Muscle Activation Level on Driver Neck Response in Frontal Motor Vehicle Crashes](#)
- [2021-01-5010 – A Safety Analysis and Verification Framework for Autonomous Vehicles Based on the Identification of Triggering Events](#)

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## SAE Journal Articles (12):

- [02-14-01-0007 - A Survey of Path Planning Algorithms for Autonomous Vehicles](#)
- [12-03-04-0020 - Literature Review of Verification and Validation Activities of Automated Driving Systems](#)
- [14-10-01-0003 - Life Prediction Method of LiFePO4 Traction Battery Based on Interval Charging Capacity](#)
- [05-14-02-0015 - Development of Framework for Lean Implementation: An Interpretive Structural Modeling and Interpretive Ranking Process Approach](#)
- [03-14-02-0013 - Fretting Fatigue Failures in Internal Combustion Engine Components: A Review and Future Scope](#)

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## SAE EDGE™ Research Reports (3):

- [Unsettled Issues in Electrical Demand for Automotive Electrification Pathways](#)
- [Unsettled Topics Concerning Coating Detection by LiDAR in Autonomous Vehicles](#)
- [Unsettled Topics on Surface Finishing of Metallic Powder Bed Fusion Parts in the Mobility Industry](#)

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## SAE Professional Development:

**Spotlight Course:** ARP4754A/ED79: Guidelines for Development of Civil Aircraft and Systems C2018 | March 1-4, 2021 | Online

This two-day course will review ARP4754A and the guidelines introduced in the revised recommended practice for aircraft and systems development. It will detail the critical concepts used in aircraft and systems development processes for certification, the aircraft/systems development process and its interactions with the safety, hardware development and software development processes. **This course has been tailored for engineers and others involved avionics and certification of aircraft.**

[Register](#)

## SAE Book Spotlight:

**From our Featured Move with SAE Mobilus February Guest Speakers, Rhonda Walthall & Brenda Mitchell:**

*Flight Paths to Success* profiles the personal journeys of 33 women who have been, and continue to be, successful in aviation, space, and academia. Each woman was asked to select one question of several questions in five categories: personal career insight, work-life balance, mentorship/sponsorship, avoiding a career stall, and powering through challenging situations. Each woman shared her unique experiences about work-life integration, resilience, career changes, relocation, continuing education, and career advancement. While reading their stories, we saw that there were many flight paths to success and each woman navigated her own way by charting her own course and committing to it. Their stories were published as they wrote them—in their own words.

*To add this to your SAE Mobilus Subscription please reach out to your SAE Mobilus Administrator or SAE Sales Representative.*

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## SAE Events:

**AeroTech® Digital Summit - SAE International**

March 9-11, 2021 | Online Event

Prior to the COVID-19 outbreak, the aerospace and defense industries continued to hit tremendous milestones. Now, while facing crisis, industry challenges have shifted but the need for leaders has not diminished. In 2021, it will be pivotal that key industry players connect to reignite the digital transformation so imperative to our industry's progression and restoration. That's why we are bringing to you, the AeroTech Digital Summit. Join the brightest minds in the industry as together, we expedite strategies for recovery and build relationships that propel the industry forward. From novel developments like electric aircraft and autonomous systems to the necessity of making door-to-door travel safer, **AeroTech focuses on the practical application and implementation of industry innovations and cutting-edge research.**

[Registration](#)

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## 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 are the latest happenings and benefits:

- [SAE Engineers' Week Contest](#), February 22 – 26 – Provide the best answer to daily questions on the topic of Urban Air Mobility and win a \$100 Amazon gift card and a grand prize of \$500.
- New Member Benefit, [MetLife Dental Take Along](#): Choose from two dental coverage options and find the coverage level that fits you best.

[Become an SAE Member](#)

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