



SAE International
Engineering. Advanced.

BACKGROUND



Foreword

For more than 110 years, SAE International has been dedicated to the advancement of voluntary engineering consensus to provide best practices and promote innovation.

SAE International provides a collaborative, learning-based environment for the engineering community.

	
Founded	1905
Scope	\$75M (USD), 300 staff
Structure	U.S. 501(c)(3) Not-for-profit
Industry Focus	<ul style="list-style-type: none">• Aerospace• Automotive• Commercial Vehicles
Mandate	<ul style="list-style-type: none">• Technical Standards• Publications• Conferences• Professional Development• Education

What We Do

SAE International is focused on the development and dissemination of engineering-related knowledge to ensure efficient, practical application in all facets of mobility.

Our members:

- Share information in a pre-competitive manner, resulting in relevant and timely standards that improve quality, safety and cost optimization
- Engage in lifelong learning, leading to knowledge-sharing and innovation
- Focus on the advancement of the art and science of mobility, driving transport improvements and benefiting society

Why We Do It

SAE International's goal is to provide a neutral arena for engineers, scientists and students to share ideas, leading to:

- Sharing of scientific and engineering papers that result in widespread mobility improvements
- Rapid advancement in the design and construction of self-propelled machines
- Collaboration across industries and functional areas, ensuring cross-pollination of ideas and increased design efficiencies

How We Accomplish

Vision

SAE International is the leader in connecting and educating engineers while promoting, developing and advancing aerospace, commercial vehicle and automotive engineering.

Mission

SAE International is a global body of scientists, engineers, and practitioners that advances self-propelled vehicle and system knowledge in a neutral forum for the benefit of society.

Outcomes

When activated, SAE International's vision and mission lead to:

- A global network for knowledge advancement and dissemination
- Globally accepted standards driving product innovation and best practices
- Lifelong professional development and educational opportunities
- Programs, products and services enabling innovation and sound decision making

STRUCTURE

Leadership & Governance

The SAE Board of Directors has responsibility for strategic direction and financial stability. The Board is elected by the general membership.

Board of Directors

Pierre Alegre
AAR Corporation

Carla Bailo
The Ohio State University

Daniel Basch
Parker Hannifin

Alba Colon
General Motors Corporation

Richard Greaves
Meggitt PLC

Haoran Hu
Weichai Power Co Ltd

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Honda R&D Americas, Inc

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Christopher Myers
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Cuneyt Oge (Chair)
PWC

Doug Patton
DENSO International America, Inc

David Schutt (CEO)
SAE International

Thomas Stover
Eaton Corporation

Eric Tech
NAVISTAR

Gareth Williams
AIRBUS

Todd Zarfos
The Boeing Company

Portfolio





Membership



Membership Overview

Membership in SAE provides peer-to-peer access to a network of more than 137,000 engineering, scientific and related technical experts

- Sharing best practices through member-only events and exclusive conferences
- Member-only discounts on standards, conferences and publications
- Unique continuing education opportunities promote career progression



Membership Benefits

Members have access to:

- Like-minded professionals in 42 active professional sections
- Latest developments in industry segments
- Job postings and exclusive technical content



Professional Development



Professional Development Overview

SAE offers more than 400 courses to members covering industry and functional area topics

- Unique education opportunities promoting career progression at an individual and corporate level
- On-demand eLearning courses providing access to the right course at the right time
- Panel-based and instructor-led live sessions offering exclusive opportunities to interact with leading industry experts



Professional Development Benefits

- Continually growing catalog of topical and industry courses provides ongoing education opportunities
- As-needed content access, improving efficiencies
- Topics include key mobility technical drivers, regulations and business/management



Events



Events Overview

SAE offers more than 30 exclusive, content-driven events and conferences—drawing more than 30,000 attendees—in the areas of aerospace, automotive and commercial vehicles

- Events are held globally, with industry experts as both presenters and attendees—papers and presentations are given by more than 7,000 industry professionals
- Members provided education and networking opportunities
- Events feature multiple learning tracks, with sessions dedicated to specific areas of expertise and levels of experience



Events Benefits

- Attendees pre-select sessions most applicable to their functional role
- Attendees utilize peer-to-peer engagement to advance individual expertise
- Non-session networking allows for growth of professional networks, enabling more effective dissemination of best practices



Publications



Publications Overview

Membership in SAE provides access to more than 100,000 publications ranging from career development through highly technical papers

- Complexity ranges from short articles to in-depth technical papers that aid in informing business decisions
- Dozens of topic areas in the form of papers, books and technical standards
- Online availability through MOBILUS allows members to consume information as needed:
 - Offering access to more than 200,000 technical papers



Publications Benefits

- Members can access relevant information when and how they prefer
- Deep repository of knowledge aids in avoiding rework or exploration of engineering problems previously solved
- Assists in guiding effective and informed decisions



Foundation



Foundation Overview

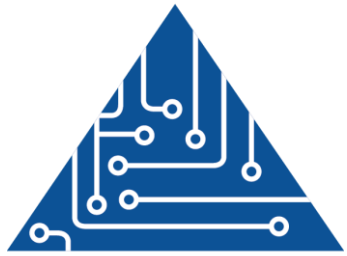
The SAE Foundation is dedicated to the advancement of the engineering discipline and encouraging the next generation to explore engineering-related careers

- Support for students, educators and corporations aids in meeting a growing demand for engineering talent
- Separate learning tracks for youth, high school and college
- \$3M in annual fundraising supports 60+ awards programs and 15 scholarships



Foundation Benefits

- Focus on STEM-related topics ties to mission of SAE and promotes development of future engineers and scientists
- Supports growth of talent pipeline, through hands-on experience in sponsored activities
- Promotes awareness of the role of engineering in advancing societal goals



Technical Standards



Technical Standards Overview

SAE International has more than 43,000 standards supporting mobility: aerospace, automotive, and commercial vehicles

- Subscription-based access to the mobility industry's single largest source for consensus-based standards
- Complete, searchable portfolio available online
- Purchase individually or as package



Technical Standards Benefits

- Cost savings in accessing standards that are applied across industry, reducing unnecessary R&D
- Operational efficiency for producers is achieved by utilizing standards studied and agreed upon by broad-based committees
- Optimizing knowledge transfer gained through access to the output of technical committees coordinated by more than 19,000 technical professionals



Media



Media Overview

SAE's Media Group regularly publishes and distributes technical content to a wide variety of audiences using multiple delivery channels

- Reach 1.1M design and manufacturing engineers
- 13 industries covered
- Custom publications
- Multiple channels: print, email, newsletters, webinars



Media Benefits

- Members access timely, tailored content on-demand
- Members receive educational material to keep abreast of industry developments
- Advertisers have the opportunity to effectively segment and target



Pre-Professional Development



Pre-Professional Development Overview

SAE offers learning opportunities for students ranging from a World in Motion through the Collegiate Design Series

- The only pre-K – 16 engineering program of its kind; 120,000 students participate
- STEM education provides an avenue for interested students to learn more about engineering-related career options
- Uses hands-on educational opportunities to teach students how to 'turn a wrench'
- More than 4 million students have participated in AWIM



Pre-Professional Development Benefits

- Inculcates interest in engineering disciplines using age-appropriate learning modules
- Hands-on engineering education results in increased student engagement
- Teaches future engineers how to engage with teams and manage projects—more than 100,000 current engineers are alumni of CDS



INDUSTRY SECTOR: Aerospace

About

Founded in 1916, SAE's aerospace industry sector seeks to:

- Leverage strength in standards across all product lines
- Strengthen brand identity within the aerospace sector
- Continue globalization efforts.

SAE International is the leader in delivering standards and standards-related programs, products and services to the aerospace sector while providing value-add solutions in related program areas.

Structure

SAE aerospace is comprised of a council that oversees multiple systems groups and technical committees.

- **Council** manages the aerospace standards program, ensuring timely and relevant standards development.
- **Systems groups** implement council strategies at the technical committee level, acting as a support liaison.
- **Technical committees** develop, maintain and promote all standards within their scope of work.

Standards

SAE has developed more than 8,500 technical standards, addressing engineering, technology, safety, regulatory and defense needs in a world market. Standards developed by 350 technical committees comprised of 10,000+ experts.

- Standards serve full spectrum of aerospace: commercial and military
- Used by regulatory agencies as a technical basis and means of compliance
- The aerospace industry is a partner of the regulator through standardization

Events

Throughout the year, SAE holds several industry events tailored for the aerospace industry. SAE also hosts numerous events throughout the year focused on transportation standardization.

- **SAE AeroTech Congress & Exposition** is a biennial event addressing: business case, EHM, SHM, other sub-systems, vehicle level 1 and vehicle level 2
- AeroTech Congress also provides a comprehensive integrated vehicle health management (IVHM) global outlook
- **IVHM Webcast** debuted in 2013 and will continue with a follow-up on prognostics and diagnostics

Education

SAE provides enlightening educational opportunities for professionals and pre-professionals in the aerospace community.

- SAE aerospace offers 70+ educational sessions as seminars or courses in the classroom, online and on-demand
- The Collegiate Design Series provides pre-professionals the opportunity to solve real-life engineering challenges conforming to configuration limitations.

Publications

Aerospace industry professionals stay connected to industry breakthroughs and news through SAE's 200+ industry-specific books and magazine series.

- *Aerospace Engineering* and *Aerospace & Defense Technology* magazines are available in monthly print and digital editions covering the latest industry topics of discussion.
- SAE's vast collection of books cover topics including: management & product development; electrical, electronics & avionics; safety; transportation safety; integrated vehicle health management; maintenance & aftermarket; design engineering & styling