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From the society’s beginnings – with 30 engineers in 1905 – to the 85,000 member organization of today, The SAE Story details the organization’s continual advancement of mobility technology, and its profound impact on the automotive, aerospace and heavy-duty communities.

True to the rich genre of “coffee-table books,” The SAE Story is filled with archival images, historical background, and is punctuated with the personalities and pivotal moments in transportation technology. As told by Post, a former transportation curator at the Smithsonian Institution, household names such as Henry Ford, Orville Wright and Mario Andretti become the architects in the building of an industry.

Archival photos and historical reporting chronicle:

- The origins of the automobile
- The introduction of mass production
- Federal aid for roads
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- Motorsports
- The technologies of the future

Look back at a century of progress and the landmark contributions of the Society that has brought the industry’s innovators together for 100 years.

The SAE Story is a great gift for SAE members or anyone interested in automotive history.
This book chronicles over 75 years of engine design, development, and production at Chrysler Corporation. Every production engine built by Chrysler is covered, with descriptions, pictures, specifications, and timelines provided for each.

Each engine is defined in terms of its basic structure (including its cylinder bore spacing, number of main bearings, and valve operation). In addition to the specifications, the book also looks at the personalities behind the engines’ development and the vehicles in which the engines were used.

From two early (albeit unsuccessful) attempts prior to the incorporation of Chrysler in 1925 through the 1998 merger of Chrysler and Daimler Benz AG, *Chrysler Engines 1922-1998* provides the inside story on many landmark engines.

**Chapters include:**
- Chrysler-Willys – The First “Chrysler” Cars and Engines
- Zeder, Skelton, and Breer’s Engines A, B, C, and D
- Zeder, Skelton, and Breer’s Three Engineering Masterpieces – Engines B, E, and H
- Maxwell, Chrysler, and Plymouth Four-Cylinder Engines
- Dodge Power Joins Chrysler
- A New L-Head Six-Cylinder Design Takes Over
- Engines of Luxury – The Straight-Eights
- Hemispheres and Polyspheres – The First Generation of V-8s
- Wedge-Head V-8s – B, RB, and LA Engines
- Power Personified – The 426 Hemi® Engine
- Overhead Valve In-Line Sixes
- A New Era – Driving the Front Wheels with Four-Cylinder Engines
- V-6 Engines – More Power for Front-Wheel-Drive Cars
- A Big, Powerful, All-Aluminum V-10 – The Viper Engine
- Truck Engines – Hauling the Load
- Marine and Industrial Engines – Chrysler Power Afloat and Ashore
- Chrysler Power Goes to War – Chrysler Engines During World War II
- A Different Type of Engine – The Chrysler Gas Turbine
- American Motors Engines Join the Chrysler Power Lineup

**About the Author**

Willem L. (Bill) Weertman spent 40 years with Chrysler Corporation. As Chief Engineer–Engine Engineering, he was responsible for all new engines for the corporation’s new car lines of front-wheel drive vehicles and for adapting and testing the engines purchased from outside companies. He had previously held the titles of Chief Engineer of Engine Design and Development, and Assistant Chief Engineer–Engine Design, and he led the design efforts for the LA V-8 engine series, the 426 Hemi® competition and street engines, and an all new six-cylinder engine for manufacture in Australia.


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This book traces the history of Hall-Scott, a company best known as a maker of commercial engines that powered tens of thousands of vehicles and equipment, including trains, airplanes, boats, trucks, buses, fire trucks, pumps, generators, and other large machines. From the company’s successful early years through World Wars I and II, to the various corporate sales and mergers of the company and its ultimate demise, this book takes a comprehensive look at Hall-Scott’s technological advances, successes, problems, and failures.

Author Francis Bradford, a former Hall-Scott engineer, provides valuable resources and insight not available to any other Hall-Scott researcher. Well-illustrated with numerous photos, drawings, and memos, this book will be of interest to history buffs in the areas of aviation, rail, marine, trucks, buses, fire equipment, and industrial engines, and to World War and military historians.

Chapters include:

• Hall-Scott’s Founders and Formative Years
• Hall-Scott’s Roaring Early ’20s
• ACF’s New Engine Division
• Hall-Scott Goes to War
• Shuffled Around, Bled Dry, and Spun Off
• Old Engine Makers Just Fade Away

Hall-Scott: The Untold Story of a Great American Engine Maker is a fascinating history on this greatly admired company.


$39.96 (SAE Member)
$49.95 (Nonmember)
Product Code: R-368

About the Authors

Francis H. Bradford graduated from Stanford University in 1934 with an engineering degree and worked as a staff engineer at Hall-Scott from 1940 until 1958. He was asked by management to help close down the Hall-Scott plant. In doing so, he saved boxes of invaluable Hall-Scott photos, brochures, reports, memos, and other materials from being destroyed. Using this material, Bradford wrote an unpublished history of Hall-Scott in 1989, the first extensive history written on the company. After leaving Hall-Scott in 1958, he moved to Grove Valve and Regulator as a staff engineer, retiring in 1976.

Ric A. Dias graduated with a Ph.D. in history from the University of California, Riverside in 1995, and joined the faculty at Northern State University in Aberdeen, South Dakota. He is a professor of history. Dias has written on Kaiser Steel Corporation and the Cold War. In addition to this Hall-Scott book, Dias and Bradford collaborated on a number of articles concerning Hall-Scott.
A large number of U.S. jet fighters have been produced since the end of World War II, but did you know there were many other U.S. fighter designs and developments that never made it to operational status, such as the F-13, F-17, and F-19? This book discusses the “Lost Fighter” turbojet and turboprop propulsion systems of the exciting jet fighter era in the United States since the mid-1940s.

Until now, very little has been published about these fascinating fighter activities that, for a variety of reasons, did not reach fruition. Covering fighter developments that did not reach beyond an artist’s concept stage, to those that were cancelled after an evaluation of flight capabilities, to others that were cast aside after losing a fly-off competition, this book makes extensive use of previously unpublished, primary-source material. It provides remarkable insight into a world where few people have had little knowledge of some of the most notable and technologically advanced fighters, while at the same time presenting a coherent picture of U.S. jet fighter development and evolution. This book also includes hundreds of photos, drawings, and illustrations of the many “Lost Fighters.”

Chapters include:
- Background
- Lost Air Force F-70s, F-80s, and F-90s Series Fighters
- Lost Air Force F-100s and F-110s Series Fighters
- Lost Navy F1s and F10s Series Fighters
- Lost Air Force and Navy F-10s and F-20s Series Fighters
- Lost Air Force, Navy, and NASA VTOL, STOL, and Research-Type Fighters
- Lost Air Force Major Modified Fighters
- Lost Air Force and Navy Fighter Concepts

About the Author

Bill Holder is a retired aerospace engineer who worked with the Boeing Company on the Bomarc missile and the Apollo moon program. He completed his career working for the U.S. Air Force Intelligence at Wright-Patterson Air Force Base. Holder has been an award-winning freelance writer for four decades, specializing in aviation, automotive, and racing subjects. He has more than 50 published books and hundreds of articles to his credit. Holder’s aviation/aerospace books have covered all aspects of aviation and space systems. He has written books on the Saturn V moon rocket, the history of UAVs, Presidential aircraft, and many others.
The people who “changed the face of the earth...”

From the Prologue
“In 1913, The New York Times declared, ‘the coming of the automobile has literally changed the face of the earth.’ Given that assessment, it is interesting that the invention was so long in arriving. Its roots dated back to the American Revolution, but for more than a century, inventors faced ridicule and contempt ... The transition of America from horse-drawn to horse-less society boasts an epic cast of characters - from stalwart heros to dastardly scoundrels, from social grandees to street toughs, from wise men to wise guys.”

This “cast of characters” provides the lens through which award-winning author Beverly Rae Kimes focuses on the early years of the American automobile industry. While some names - Ford, Dodge, Buick, and more - are easily recognized, this book also introduces snapshots of lesser known, but vitally important actors in this dramatic saga. The famous, the infamous, and the unknown are brought together by their common dedication to this great invention - and united by the fascinating stories that characterize each person.

This book presents a unique and engagingly written portrait of the American automobile industry’s early years, focusing on the individuals who dreamed, schemed, innovated, succeeded and failed in their quests for fame, fortune, glory, and knowledge. This is a book that tells a story like no other - a history of America, Americans, and their love affair with the “horse-less carriage.”

About the Author
My first assignment [for Automobile Quarterly] was a history of the curved dash Oldsmobile, and I was hooked. What could be more exciting than automobile history? I told myself that one day I would know enough about it to tell everyone else how exciting it was.”

Beverly Rae Kimes, from the Acknowledgments

After forty years of research and writing, Kimes has become an acknowledged expert, sharing her knowledge and enthusiasm about automobile history with the world through her engaging articles and books. Five of her books have won the Cugnot Award of the Society of Automotive Historians for best book of the year, and she has received the Society’s Benz Award for best article of the year four times.

$31.96 (SAE Member)
$39.95 (Nonmember)
Product Code: R-358
The story of William F. (Bill) Milliken’s lifetime of experimentation and innovation in aircraft, auto racing, and vehicle dynamics research is told in his new “engineering autobiography” Equations of Motion: Adventure, Risk and Innovation.

Co-author of the landmark books Race Car Vehicle Dynamics and Chassis Design: Principles and Analysis (both published by SAE), Milliken is recognized as a pioneer in the science of vehicle handling. In Equations of Motion, he shares the story of his work and career which began in 1933 (when he built and flew his own airplane) and continues to this day.

Sections include:

- Growing Up Down East 1911-1932
- An Engineer’s Education 1932-1939
- War Effort 1939-1943
- Transition to Research 1944-1947
- Automobile Racing 1947-1956
- Automotive Research 1956-2002

Among the many highlights covered in the book are: Milliken’s service as a test pilot and engineer during World War II, in which he helped perfect innovative combat aircraft; his participation as a driver in over 100 races, including the first Watkins Glen race; his work as a consultant to major automobile companies and racing teams; and his research which laid the foundation for modern automotive chassis design.

About the Author

William F. Milliken was the managing director at Cornell Aeronautical Laboratory for over 30 years. While there, his team published a series of papers covering the complete theory of automobile stability and control. In 1976, after retiring at age 65 as the head of the Laboratory’s Transportation Research Division, Milliken founded Milliken Research Associates, a company now run by his son, Douglas L. Milliken.


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Ford: The Dust and the Glory
Volume 1 (1901-1967)

From Henry Ford’s own victory at the October 1901 Detroit Driving Club race to the 1967 LeMans triumph of A.J. Foyt and Dan Gurney, this book tells the inside story of Ford’s spectacular racing accomplishments.

Volume 1 features the stories - and numerous photographs - of the great races, the great cars, and the legendary personalities (both the famous drivers and those “behind the scenes”) associated with Ford and its great competitors of the era.

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This second volume of Leo Levine’s history of Ford’s 100-year involvement in auto racing covers the 33-year span from 1968 through 2000, the years in which the sport grew from a regional attraction to a national television phenomenon.

Levine goes behind the scenes to chronicle the greatest personalities, cars, and races of the era, from all types of racing - NASCAR, CART, Formula One, NHRA, Off-Road, and others.

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The Golden Age of the American Racing Car
Second Edition
Griffith Borgeson

The Golden Age of the American Racing Car emphasizes the human side of racing history, offering insight into the men who shaped the golden age. Covering a period of time from the 1910s through the 1930s, the book describes the historical development of race car technology and presents fascinating information on race courses, designers, builders, drivers, and events. Racing pioneers covered include: Fred Duesenberg; Louis Chevrolet; Harry Miller; Leo Goossen; and Fred Offenhauser.

The first edition of this book became a much sought-after collector's item, and has often been credited with stimulating interest in golden age racing car restorations. In the three decades since its publication, no other book has similarly captured the imagination of racing fans.

Product Code: R-196

Carriages Without Horses
J. Frank Duryea and the Birth of the American Automobile Industry
Richard P. Scharchburg

Carriages Without Horses tells, for the first time, the story of the life and pioneering accomplishments of J. Frank Duryea, who did the actual work of construction on the cars, and was responsible for the practical designing and engineering of all components (aside from the steering mechanism) of the Duryea cars. In addition to setting the historical record straight regarding the contributions of the brothers, this book also tells the story of America's first automobile company taking shape.

Product Code: R-127

The Birth of Chrysler Corporation and Its Engineering Legacy
Carl Breer
Edited by Anthony J. Yanik

This is the story of a remarkable engineering team as told by one of its members, Carl Breer - a “behind-the-scenes” look at the many innovations developed by the Zeder, Skelton, and Breer team during Chrysler's early days, including hydraulic brakes, all-steel bodies, “fresh air” heaters, and more.

It also describes the team's groundbreaking wind tunnel research which resulted in the development of the Airflow, an engineering tour de force that was so far ahead of its time that, unfortunately, the marketplace didn’t respond well to it. Through words and pictures from Breer's own photography collection, this book offers a nostalgic look at the industry's early days and provides us with insight into the men that were instrumental to Chrysler Corporation's engineering success.

Product Code: R-144

The E-M-F Company
The Story of Automotive Pioneers
Barney Everitt, William Metzger, and Walter Flanders
Anthony J. Yanik

In 1908, the trio Walter Flanders, Byron Everitt and William Metzger - at the time, the most well-known names in the Detroit automobile industry - joined together and announced that they would begin production on a medium-priced car. The proof of the magic of their names showed in the sales figures. By the close of 1909, EMF vaulted into the number two slot in automotive production. Factoring in that success was their alliance with the Studebaker Brothers Manufacturing Company, which later purchased EMF.

This book tells the remarkable story of three automotive giants and the impact they had on the American car industry. Everitt was instrumental in forming the extensive body building industry that characterized Detroit prior to World War II. Metzger established the first automotive dealership in Detroit, if not the country, and served as head of sales of Cadillac during its formative years. Flanders, a genius with machines, masterminded the tools of production for the first Model T.

Product Code: R-286

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