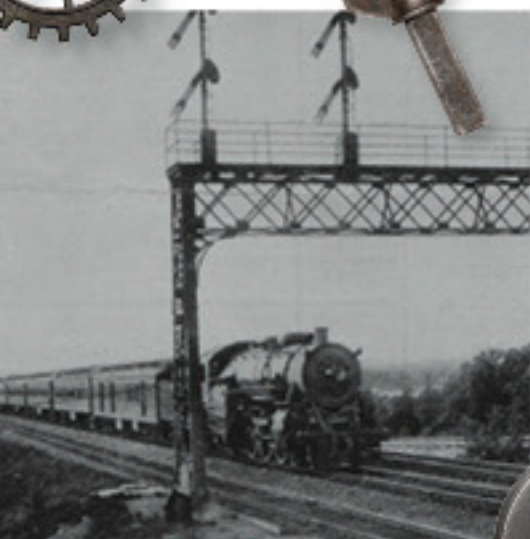


Smithsonian Collections Online

Documenting Over **200 Years** of **Technology** and **Discovery**



The first steam locomotive is created

1784



1814



1837



John Deere designs and builds the first cast steel plow

The Colt revolver is presented at the Great Exhibition in London



1851



Evolution of Flight, 1784-1991

From the hot air balloons of yesteryear to the commercial airline carriers of today, mankind has always been fascinated by the concept of flight. Public interest in aviation peaked during the twentieth century, leading to rapid development of its corresponding technology. From this period of fervent focus emerged the celebrated pioneers of aviation who forever changed the way humans interact with the world. Their theories, feats, and record-breaking efforts are all captured in *Evolution of Flight, 1784-1991*.

Drawing from the treasure trove of images, diaries, correspondence, scrapbooks, government documents, and other primary source materials available within the National Air and Space Museum Archives and the National Air and Space Museum Library, Smithsonian Libraries, this newest collection in the *Smithsonian Collections Online* series offers unparalleled insight into the era of aviation and its lasting impact on today's society with content that spans more than two centuries.

The *Evolution of Flight* archive sketches the lives and contributions of aviation's pioneers, scientists, promoters, businessmen, barnstormers, racers, designers and manufacturers, and the aerial aces spanning World War I to Iraq and all the

wars in between, revealing the personal—and often hidden— aspects of humankind's conquest of the skies and providing a complete and compelling resource for students and scholars of a number of disciplines.



Provides insight into:

- Early flight and air races
- The fighter pilot
- The evolution of aerial weaponry
- Navigational technology
- Women in aviation
- Zeppelin travel
- Engines and propulsion
- Germany's WWII jet program
- The Cold War aviation race
- America's current high tech air fleet





 Smithsonian Collections Online

World's Fairs and Expositions: Visions of Tomorrow, 1840-1940

World's Fairs and Expositions: Visions of Tomorrow gives researchers access to primary source documents about landmark exhibits from 1840 to 1940. This archive captures the spirit, technology, design, and innovations that influenced the modern world.

The international nature of the collection is illustrated in the comprehensive range of material. A partial list includes: London, Great Exhibition of the Works of Industry of All Nations (1851); Melbourne, International Exhibition (1880); Barcelona, Exposición Universal (1888); Paris, Exposition universelle (1889); Chicago, World Columbian Exposition (1893); and Rio de Janeiro, Exposição Nacional (1908).

This collection allows users to explore the technological progress — in everything from entertainment to politics — that shaped contemporary outlooks and reflected national identities. It supports studies in history, architecture and industrial design, fine and decorative arts, science, technology, and medicine, gender and ethnic studies, photography, and more.



Supports research into :

- The manufacturing boom in 19th-century Britain
- The 19th-century “information revolution” and the accumulation of knowledge
- Victorian visual culture
- Positioning the nation-state in an international context
- Industrial change and the emergence of metropolitan America
- Advent of a consumer-based society
- Technology and mass entertainment
- Fairs as test runs for mass marketing, packaging, and advertising
- Presentation of ethnic stereotypes and colonized peoples
- The popularization of science
- Smithsonian Institution’s involvement in domestic and foreign expositions



The helicopter
is invented



1939



1969



Man reaches
the Moon

The 3D printer takes the
world by storm



2013



2015

Trade Literature and the Merchandizing of Industry, 1820-1926

The evolution of business is inextricably linked with American and international history and identity. For the first time, researchers can now explore this aspect of American and international life via catalogs, pamphlets, advertising materials, and ephemera on essential industries that emerged in the nineteenth and early twentieth centuries — steam engines, railroads, motorized vehicles, agricultural and farm machinery, building and construction, mining, and more.

With this collection, researchers can determine the history of companies and industries, analyze marketing and management techniques, and examine illustrations of the items Americans used at home and in business.

By exposing technological advances over time, development of advertising and education of consumers, architectural advances, societal changes, and business history, this collection reveals vital aspects of our culture, society, and history.



Key research areas covered include:

- Railroads and railway equipment
- Agricultural machinery
- Transportation equipment
- Power generation
- Building and construction
- Iron and steel
- Mines and mining equipment
- Motorized vehicles

ABOUT THE PARTNERSHIP

Gale and the Smithsonian have partnered to give libraries a unique opportunity to provide students, faculty, and researchers the chance to look behind the glass of the Smithsonian exhibits and collections. Gale is digitizing primary source materials from deep within the museums, libraries, and archives of the world's largest museum and research complex, making it available in searchable formats, and integrating it

with software that aligns with scholarly workflow.

The Smithsonian's content is vast and unmatched. The digitized materials within Smithsonian Collections Online offer the opportunity for new and exciting scholarship.

[Learn more.](#)

www.gale.cengage.com/smithsonian

Air & Space and Smithsonian Magazine Archive



Air & Space and Smithsonian Magazine Archive combines *Air & Space Magazine* and *Smithsonian Magazine* for the first time in a single, fully searchable digital archive. By bringing together the full history of both of these premiere magazines, decades of in-depth and expert coverage of high-demand topics and unique insights into aviation, space, innovation, history, science, technology, the arts, and culture are accessible in an integrated, intuitive display. This interdisciplinary, cross-curricular archive will engage users whether pursuing general topical information or developing deeper knowledge in a given subject area.

Smithsonian Magazine offers tremendous insights into the American experience as well as for those researching and traveling the world outside of the U.S. and includes repository of articles on important science and technological discoveries and advances.

Air & Space Magazine provides students and researchers in aeronautical and aerospace engineering, military science, military history, and the history of science and technology a single location to quickly search and browse the content critical to their research.



DISCOVER

New tools and features to take your research to the next level.

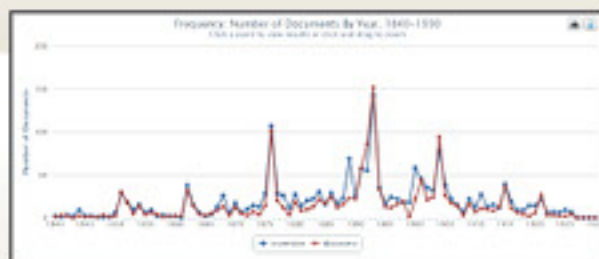
TERM CLUSTERS

Term Clusters assist students in thoroughly developing their research topic. By identifying and organizing commonly occurring themes, this tool reveals hidden connections to search terms—helping students shape their research and integrate diverse content with relevant information. This tool is now more powerful than ever with the addition of Term Cluster Tiles as a new way to visually organize results.



TERM FREQUENCY

The Term Frequency tool aids researchers in tracking central themes and ideas. Researchers can now see the frequency of their search term within content to begin assessing how individuals, events, and ideas interacted and developed over time.



DOWNLOADABLE OCR

The primary source documents in this collection are keyword and full text searchable thanks to Optical Character Recognition (OCR). Users can now download this OCR in a .txt format, enabling a new level of access to their search results.



www.gale.cengage.com/smithsonian

These collections are cross-searchable via **Gale Artemis: Primary Sources**, the ground-breaking research environment that brings newfound discovery, relevance, and simplicity, enabling users to make never-before-possible research connections.



Explore the possibilities at www.gale.cengage.com/artemisprimary