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## ABSTRACT

This guide offers a systematic approach to the wide variety of published biographical information on men and women of science. Historical and contemporary scientists are covered, with emphasis on American scientists. Sources were selected on the basis of general availability through major public and institutional library systems. This publication is organized under the following headings: (1) general works which are divided into comprehensive and limited entries; (2) bibliographies and indexes; (3) selected national resources from the United States and other countries; (4) subject sources which are arranged alphabetically by broad discipline from aeronautics and astronautics to technology; and (5) pertinent abstracting and indexing services that index relevant journal articles and other literature. The booklet provides introductory material sources pertaining to scientific and technical information, a bibliography of the history of technology, and an introduction to the literature of science and technology. Additionally, subject headings used by the Library of Congress, under which biographical materials can be located in most card, book, and online catalogs, are cited. (RT)

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## BIOGRAPHICAL SOURCES IN THE SCIENCES

Compiled by Janet Turner, Constance Carter, and Ruth S. Freitag

TB 88-3

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**SCOPE:** This guide offers a systematic approach to the wide variety of published biographical information on men and women of science. Both historical and contemporary scientists are covered, with emphasis on American scientists. Sources were selected on the basis of general availability through major public and institutional library systems. Departing from the usual Tracer Bullet format, this guide is organized under the following headings: (1) general works, (2) bibliographies and indexes, (3) selected national sources, (4) subject sources, arranged by broad disciplines, and (5) pertinent abstracting and indexing services. Not intended to be a comprehensive bibliography, this Tracer Bullet is designed--as the name of the series implies--to put the reader "on target."

### INTRODUCTORY MATERIAL

Chen, Ching-chih. Biographical sources. In his Scientific and technical information sources. 2nd ed. Cambridge, Mass., MIT Press, 1987.  
p. 448-464. Z7401.C48 1987\*

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p. 380-387. Q225.5.G76 1982\*

\*Available in the reference collection, Science Reading Room

SUBJECT HEADINGS used by the Library of Congress, under which biographical materials can be located in most card, book, and online catalogs, include the following:

- SCIENTISTS--BIOGRAPHY (Highly relevant)  
SCIENTISTS--BIOGRAPHY--DICTIONARIES (Highly relevant)  
SCIENTISTS--BIOGRAPHY--DIRECTORIES (Highly relevant)  
SCIENTISTS--BIOGRAPHY--INDEXES (Highly relevant)  
See also subdivision BIOGRAPHY under groups of scientists, e.g., AFRO-AMERICAN MATHEMATICIANS; AFRO-AMERICAN SCIENTISTS; WOMEN ASTRONOMERS; WOMEN SCIENTISTS; SCIENTISTS, PHYSICALLY HANDICAPPED; SCIENTISTS, JEWISH; CATHOLIC SCIENTISTS; SCIENTISTS, MUSLIM
- SCIENTISTS--UNITED STATES--BIOGRAPHY (Highly relevant)  
See also other countries or geographic areas, e.g., SCIENTISTS--CHINA--BIOGRAPHY; SCIENTISTS--INDIA--BIOGRAPHY; SCIENTISTS--SOVIET UNION--BIOGRAPHY; SCIENTISTS--EUROPE--BIOGRAPHY; SCIENTISTS--LATIN AMERICA--BIOGRAPHY
- MEDICINE--BIOGRAPHY (Relevant)  
See also subdivision BIOGRAPHY under other scientific disciplines, e.g., AERONAUTICS; ELECTRONIC DATA PROCESSING; PHOTOGRAPHY. Note: these headings are used for collective biography only.
- PHYSICS--BIO-BIBLIOGRAPHY (Relevant)  
See also subdivision BIO-BIBLIOGRAPHY under other scientific disciplines, e.g., GEOLOGY; MEDICINE; SCIENCE
- ZOOLOGISTS--BIOGRAPHY (Relevant)  
See also other occupational subject headings, with or without geographic area subdivisions, e.g., ANATOMISTS; ASTRONOMERS; BIOCHEMISTS; BIOLOGISTS; BOTANISTS; CHEMISTS; COMPUTER ENGINEERS; EARTH SCIENTISTS; ECOLOGISTS; ENGINEERS; ENTOMOLOGISTS; GEOLOGISTS; INVENTORS; INDUSTRIALISTS; MALACOLOGISTS; MATHEMATICIANS; METEOROLOGISTS; MICROBIOLOGISTS; MINERALOGISTS; MOLECULAR BIOLOGISTS; MYCOLOGISTS; NATURALISTS; OCEANOGRAPHERS; ORNITHOLOGISTS; PALEONTOLOGISTS; PHYSICIANS; PHYSICISTS; PSYCHIATRISTS; PSYCHOLOGISTS; TECHNOLOGISTS; VETERINARIANS
- SCIENTISTS--ANECDOTES and SCIENTISTS--ANECDOTES, FACETIAE, SATIRE, ETC. (Related)
- SCIENTISTS--CORRESPONDENCE and SCIENTISTS--CORRESPONDENCE, REMINISCENCES, ETC. (Related)
- SCIENTISTS--INTERVIEWS (Related)
- SCIENTISTS--PORTRAITS (Related)  
See also subdivisions ANECDOTES; ANECDOTES, FACETIAE, SATIRE, ETC.; CORRESPONDENCE; CORRESPONDENCE, REMINISCENCES, ETC.; INTERVIEWS; and PORTRAITS under groups of scientists, e.g., ENGINEERS; PHYSICISTS; TECHNOLOGISTS, with or without geographic area subdivisions
- BIOGRAPHY (More general)  
OBITUARIES (More general)

GENERAL WORKS—COMPREHENSIVE

- Arago, Dominique François Jean. Biographies of distinguished scientific men. Freeport, N.Y., Books for Libraries Press, 1972. 2 v.  
Reprint of the 1859 ed. Q141.A65 1972
- Asimov, Isaac. Asimov's biographical encyclopedia of science and technology; the lives and achievements of 1510 great scientists from ancient times to the present, chronologically arranged. 2nd rev. ed. Garden City, N.Y., Doubleday, 1982. 941 p. Q141.A74 1982\*
- A Biographical dictionary of scientists. Edited by Trevor I. Williams; assistant editor, Sonia Withers. 3rd ed. New York, Wiley, 1982. 674 p. Q141.B528 1982\*
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- Current contents address directory: science & technology. 1984+ Philadelphia, Institute for Scientific Information, 1985+ annual. Q145.C86\*  
Continues International directory of research & development scientists, 1965-70, ISI's who is publishing in science, 1971-78, and CBD, Current bibliographic directory of the arts & sciences, 1978-83.
- Dictionary of scientific biography. Charles Coulston Gillispie, editor in chief. New York, Scribner, 1970-80. 16 v. Q141.D5\*  
Vol. 15, Supplement; v. 16, Index.
- Feldman, Anthony, and Peter Ford. Scientists & inventors. Update editor: Graham Yost. New York, Facts on File, 1986. 352 p. In process  
Science Reading Room has 1979 ed. (336 p. T39.F37 1979\*).
- Gascoigne, Robert M. A chronology of the history of science, 1450-1900. New York, Garland Pub., 1987. 585 p. (Garland reference library of the humanities, v. 714) Q125.G39 1987\*
- Grosse Naturwissenschaftler; biographisches Lexikon mit einer Bibliographie zur Geschichte der Naturwissenschaften. Hrsg. von Fritz Krafft. 2., neubearb. und erw. Aufl. Düsseldorf, VDI, 1986. 456 p. Bibliography: p. 365-435. Q141.G85 1986\*
- Howard, Arthur V. Chambers's dictionary of scientists. London, W. & R. Chambers, 1951. 500 columns. Q141.H69 1951a\*
- McGraw-Hill modern scientists and engineers. New York, McGraw-Hill, 1980. 3 v. Q141.M15 1980\*  
Previous ed. published under title McGraw-Hill modern men of science.

- Poggendorff, Johann C. Biographisch-literarisches Handwörterbuch zur Geschichte der exakten Wissenschaften. Leipzig, Barth, 1863-1904; Verlag Chemie, 1925-40. 6 v. in 11. Z7404.P74\*  
Contents: v. 1-2. To 1857.--v. 3. 1858-83.--v. 4. 1883-1904.--v. 5. 1904-22.--v. 6. 1923-31.
- Biographisch-literarisches Handwörterbuch der exakten Naturwissenschaften. Berlin, Akademie-Verlag, 1955+ Z7404.P74\*  
The new series, beginning with v. 7, is subdivided into two groupings: v. 7a covers scientists from Germany, Austria, and Switzerland, 1932-53, and v. 7b, scientists from other countries, 1932-62. Sci RR set is incomplete.
- Scienziati e tecnologi dalle origini al 1875. v. 1+ Milano, A. Mondadori, 1975+ Q141.S372  
Contents: v. 1. Da Abano, Pietro d' a Gibbs, Josiah Willard.--
- Turkevich, John, and Ludmilla B. Turkevich. Prominent scientists of continental Europe. New York, American Elsevier, 1968. 204 p. Q141.T82\*
- Who's who in science in Europe; a biographical guide in science, technology, agriculture, and medicine. 5th ed. Harlow, Essex, UK, Longman; Detroit, distributed by Gale Research Co., 1987. 3 v. Q141.W588 1987+
- World who's who in science; a biographical dictionary of notable scientists from antiquity to the present. Editor: Allen G. Debus. Chicago, Marquis-Who's Who, 1968. 1855 p. Q141.W7\*
- Zahm, John A. Woman in science; with an introductory chapter on woman's long struggle for things of the mind, by H. J. Mozans, i.e. J. A. Zahm. Cambridge, Mass., MIT Press, 1974. 452 p. Q147.Z26 1974\*  
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GENERAL WORKS—LIMITED

- Bolton, Sarah K. Famous men of science. 4th ed. New York, Crowell, 1961, c1960. 326 p. Q141.B7 1961  
Includes: Copernicus, Galileo, Newton, William Herschel, Faraday, Lord Kelvin, Edison, the Curies, Marconi, Burbank, Walter Reed, the Comptons, Fleming, Einstein, Urey, Herman Mark, Fermi, Salk, and Tsung Dao Lee and Chen Ning Yang.
- Bridges, Thomas C., and H. Hessel Tiltman. Master minds of modern science. Freeport, N.Y., Books for Libraries Press, 1969. 278 p. Q141.B83 1969  
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- Defries, Amelia D. Pioneers of science; seven pictures of struggle and victory. Freeport, N.Y., Books for Libraries Press, 1970. 189 p.  
Reprint of the 1928 ed. Q141.D37 1970  
Includes: Jagadis Bose, Patrick Geddes, Victor Branford, Nicholas Roerich, Francis Bacon, Humphry Davy, and Michael Faraday.
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Includes: Ernst Mach, Gregor Mendel, Christian Johann Doppler, Hans Geiger, Nicolas Sadi Carnot, Gaspard Gustave de Coriolis, Andrija Mohorovičić, James Van Allen, Rudolf Mössbauer, and Alfred Nobel.
- Jones, Bessie J. Z., ed. The golden age of science; thirty portraits of the giants of 19th-century science, by their scientific contemporaries. New York, Simon and Schuster, in cooperation with the Smithsonian Institution, 1966. 659 p. Q141.J68\*
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Includes: Robert Boyle, Marcello Malpighi, Christopher Wren, Christiaan Huygens, Robert Hooke, and Isaac Newton.
- Lenard, Philipp. Great men of science; a history of scientific progress. Freeport, N.Y., Books for Libraries Press, 1970. 389 p.  
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- Meadows, A. J. The great scientists. New York, Oxford University Press, 1987. 248 p. Q141.M38 1987
- Mid-nineteenth-century scientists. Edited by John North. Oxford, New York, Pergamon Press, 1969. 190 p. Q141.M43 1969  
Includes: Charles Babbage; Charles Darwin; James Prescott Joule; Hugh Powell, James Smith, and Andrew Ross; Joseph Lister; and W. H. Perkin.
- Murray, Robert H. Science and scientists in the nineteenth century. London, Sheldon Press; New York, acmillan, 1925. 450 p. Q141.M8
- Nobel Prize winners; an H. W. Wilson biographical dictionary. Editor, Tyler Wasson; consultants, Gert H. Brieger and others. New York, H. W. Wilson, 1987. 1165 p. AS911.N9N59 1987\*
- Olby, Robert C., ed. Early nineteenth century European scientists. Oxford, New York, Pergamon Press, 1967. 179 p. Q141.038 1967  
Includes: Humphry Davy, Jöns Jacob Berzelius, Thomas Young, Louis Jacques Mande Daguerre and William Henry Fox Talbot, Charles Lyell, and Adolphe Quetelet.

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Includes: Jean Lamarck, Joseph Koelreuter, Antoine Lavoisier, Henry Cavendish, Alessandro Volta, James Watt, and William Herschel.
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- Biography and genealogy master index; a consolidated index to more than 3,200,000 biographical sketches in over 350 current and retrospective biographical dictionaries. Edited by Miranda C. Herbert and Barbara McNeil. 2nd ed. Detroit, Gale Research Co., 1980. 8 v. Z5305.U5B57 1980 SSRR  
Kept up to date by annual supplements with quinquennial cumulations.
- Biography index; a cumulative index to biographical material in books and magazines. v. 1+ Jan. 1946+ New York, H. W. Wilson. Z5301.B5 SSRR  
Quarterly, with annual and triennial cumulations.
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Contents: v. 1. Personalities, A-J.--v. 2. Personalities, K-Z. Institutions.--v. 3. Subjects.--v. 4. Civilizations and periods, prehistory to Middle Ages.--v. 5. Civilizations and periods, 15th to 19th centuries.--v. 6. Author index.

ISIS cumulative bibliography, 1966-1975; a bibliography of the history of science formed from ISIS critical bibliographies 91-100 indexing literature published from 1965 through 1974. Edited by John Neu. London, Mansell in conjunction with the History of Science Society, 1980+ Z7405.H6I2 Suppl.\*

Contents: v. 1. Personalities and institutions.--v. 2. Subjects, periods and civilizations.--

The New York times biographical service. v. 6+ 1975+ New York, New York Times; Ann Arbor, Mich., University Microfilms International. monthly. Indexes are cumulated annually. CT120.N45 SSRR  
Continues New York times biographical edition, 1970-74.

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Contents: v. 1. 1858-1968.--v. 2. 1969-1978.

Ogilvie, Marilyn B. Women in science, antiquity through the nineteenth century; a biographical dictionary with annotated bibliography. Cambridge, Mass., MIT Press, 1986. 254 p. Q141.034 1986\*

Pelletier, Paul A. Prominent scientists; an index to collective biographies. 2nd ed. New York, Neal-Schuman Publishers, 1985. 356 p. Q141.P398 1985\*

Royal Commonwealth Society. Library. Biography catalogue of the Library of the Royal Commonwealth Society. By Donald H. Simpson. London, Royal Commonwealth Society, 1961. 511 p. Z5301.R6 SSRR

Siegel, Patricia J., and K. Thomas Finley. Women in the scientific search; an American bio-bibliography, 1724-1979. Metuchen, N.J., Scarecrow Press, 1985. 399 p. Z7404.S57 1985\*

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Contents: v. 1. Universal biography; national or area biography.--v. 2. Biography by vocation; author index; title index; subject index.



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- American Black scientists and inventors. Edward S. Jenkins and others. Washington, D.C., National Science Teachers Association, 1975. 79 p. Q141.A46  
Includes: Ernest E. Just, Garrett Augustus Morgan, George Washington Carver, Benjamin Banneker, Percy L. Julian, Granville T. Woods, Charles Richard Drew, Charles Henry Turner, Matthew A. Henson, Leon Roddy, Elijah McCoy, and Daniel Hale Williams.
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With 16th ed., call no. changed to Q141.A474.
- Carwell, Hattie. Blacks in science: astrophysicist to zoologist. Hicksville, N.Y., Exposition Press, 1977. 95 p. Q141.C23  
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Includes: Benjamin Franklin, Joseph Henry, Josiah Willard Gibbs, and Thomas A. Edison.
- Dictionary of American military biography. Roger J. Spiller, editor; Joseph G. Dawson III, associate editor. Westport, Conn., Greenwood Press, 1984. 3 v. U52.D53 1984\*
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- Harris, Jonathan. Scientists in the shaping of America. Menlo Park, Calif., Addison-Wesley Pub. Co., 1971. 142 p. Q141.H293
- Jaffe, Bernard. Men of science in America; the story of American science told through the lives and achievements of twenty outstanding men from earliest colonial times to the present day. Rev. ed. New York, Simon and Schuster, 1958. 715 p. Q127.U6J27 1958\*

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Includes: Subrahmanyan Chandrasekhar, Carleton Gajdusek, Sheldon Glashow, Margaret Mead, Gerald Wasserburg, Robert Trivers, Kurt Gödel, Bernd Heinrich, Frank Oppenheimer, Michael McElroy, Barbara McClintock, Charles Darwin, Robert Wilson, Herbert Simon, James Lovelock, Birgit Zipser, John Wheeler, Tuzo Wilson, Mark Ptashne, and Albert Einstein.
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- Thiesmeyer, Lincoln R., and John E. Burchard. Combat scientists. Boston, Little, Brown, 1947. 412 p. D810.S2T5
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Includes: Ellen H. Richards, Annie Jump Cannon, Alice Hamilton, Florence Rena Sabin, Mary Engle Pennington, Lillian Moller Gilbreth, Libbie Henrietta Hyman, Wanda K. Farr, Hazel K. Stiebeling, Florence B. Seibert, Katharine Burr Blodgett, and Margaret Mead.
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Includes: Ezra Cornell, John Francis Appleby, Stephen Smith, Samuel F. Langley, John Brashear, Ambrose Swasey, William Crawford Gorgas, Harvey Washington Wiley, Elmer A. Sperry, George Washington Carver, Leo Hendrik Baekeland, Willis H. Carrier, Charles F. Kettering, Frederick G. Cottrell, Robert R. Williams, Vladimir K. Zworykin, and Emil Truog.
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