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# MEN OF SCIENCE AND INDUSTRY

A GUIDE TO THE BIOGRAPHIES OF SCIENTISTS, ENGINEERS,  
INVENTORS AND PHYSICIANS, IN THE CARNEGIE  
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## Preface

The desirability of introducing the young scientist to the personality of his predecessors has long been recognized by those interested in education. "The student will find that the best way into any science is through the history of the discoveries that have made it a science. By following the footsteps of those who have found their way to the truth, we pursue natural, if seemingly vagrant, paths. The difficulties of discovery that the pioneers of the science met are the difficulties that the student encounters. Moreover, there is a human interest about the struggles of a man with the problems of the world that adds much to the hard facts of a science, and gives one of the needed graces to the stern features of any physical inquiry." (*Shaler and Davis, Illustrations of the Earth's Surface.*)

Although the material relating to the lives of scientists and engineers is considerable in quantity, it is widely scattered and difficult of access. This condition was recognized many years ago by the Society for the Promotion of Engineering Education, which appointed a committee of investigation, but as yet no feasible plan for a uniform editing of the material has been found. In the mean time, this Library has compiled a card index to the biographies in its own collection, and this bibliography is now printed in the hope that it may prove useful to others, even though it is confined to the resources of one library.

The list is, in general, limited to men whose work is concerned with the subjects represented in the classes Science and Useful Arts, of the Decimal Classification. On this basis some men prominent in business, engineering and invention are included whose rank as scientific workers may be questioned. The limitation to one collection, and that not one attempting completeness, will account for the absence of certain names

which might reasonably be expected to appear. The brief characterizations attached to the names have sometimes given difficulty because of the varied aspects of some men's work, but the endeavor has been to choose the field in which each has made his most important contributions to science. A man's birthplace has been considered as determining his nationality.

The original intention was to include only books about individuals and collections of biographies, omitting references to the periodical press. This plan has been modified by the inclusion of references to the publications of some societies which print obituary notices of members and a few scientific and technical journals which contain numerous biographical sketches. No references to general periodicals are given except a few from Poole's Index to additional material on men already in the list. The names of those who appear in the Dictionary of National Biography are indicated by asterisks.

A list of books systematically indexed is given below, also a list of biographical dictionaries and some other works useful for reference in this connection. Among the latter may be especially mentioned the Indexes to the Proceedings of the Institution of Civil Engineers, which contain references to some 2,500 names.

The plan, compilation and annotation of this list are the work of Miss Marion Knight and Mr E. H. McClelland.

HARRISON W. CRAVER,  
*Librarian.*

October 20, 1914.



### Books Indexed in this List

- Allen, John Fenwick. 926.6 A42  
 Some founders of the chemical industry. 1906.
- American Academy of Arts and Sciences. qr 506 A5122p  
 Proceedings, 1846-48, 1868-1912. v.1, 8-48.
- American Institute of Electrical Engineers. r 621.305 A512  
 Transactions, 1884-1912. v.1-31.
- American Institute of Mining Engineers. r 622.05 A51  
 Transactions, 1871-1911. v.1-42.
- American Philosophical Society. r 506 A512  
 Proceedings, 1869-1913. v.11-52.
- American Society of Civil Engineers. r 620.6 A51p  
 Proceedings, 1873-1912. v.1-38.
- American Society of Civil Engineers. r 620.5 A51  
 Transactions, 1867-1912. v.1-75.
- American Society of Mechanical Engineers. r 621.05 A5123  
 Transactions, 1880-1911. v.1-33.
- Arago, Dominique François Jean. r 925 A65  
 Biographies of distinguished scientific men. 1857.
- Ball, Sir Robert Stawell. 925.2 B21  
 Great astronomers. 1895.
- Bettany, George Thomas. 926.1 B46  
 Eminent doctors; their lives and their work. 2v. 1885.
- Bolton, Mrs Sarah (Knowles). 925 B61  
 Famous men of science. 1889.
- Brewster, Sir David. 925 B73  
 Martyrs of science. 1877.
- Brougham, Henry Peter, baron Brougham and Vaux. qr 928 B77  
 Lives of men of letters and science who flourished in the time of George III. 2v. 1845-46.
- Bryson, John. 926 B84  
 Inventors of the Scotch-Irish race of America. 1892.
- Camac, Charles Nicoll Bancker, comp. 610.9 C14  
 Epoch-making contributions to medicine, surgery and the allied sciences. 1909.
- Chemical Society of London. 925 C42  
 Memorial lectures, 1893-1900. 1901.
- Clodd, Edward. 925 C61  
 Pioneers of evolution from Thales to Huxley. 1897.
- Eminent persons; biographies reprinted from the Times. 920 E588  
 v.1-6. 1892-97.

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| <b>Geikie, Sir Archibald.</b>                         | 550.9 G28    |
| Founders of geology. 1905.                            |              |
| <b>Geological Society of America.</b>                 | qr 550.5 B87 |
| Bulletin. v.1-23. 1890-1912.                          |              |
| <b>Gray, Asa.</b>                                     | 580.4 G81s   |
| Scientific papers. 2v. 1889.                          |              |
| <b>Hennig, Richard.</b>                               | 926.2 H44    |
| Buch berühmter ingenieure. 1911.                      |              |
| <b>Howe, Henry.</b>                                   | 926 H85      |
| Memoirs of the most eminent American mechanics. 1857. |              |
| <b>Hubert, Philip Gengembre.</b>                      | 926 H87      |
| Inventors. 1893.                                      |              |
| <b>Iles, George.</b>                                  | 926 I22      |
| Leading American inventors. 1912.                     |              |
| <b>Jeans, William Tullock.</b>                        | 926 J22      |
| Creators of the age of steel. 1884.                   |              |
| <b>Jeans, William Tullock.</b>                        | 925 J22      |
| Lives of the electricians. 1887.                      |              |
| <b>Jordan, David Starr, ed.</b>                       | 925 J42      |
| Leading American men of science. 1910.                |              |
| <b>Knox, Robert.</b>                                  | 925 K35      |
| Great artists and great anatomists. 1852.             |              |
| <b>Layson, John F.</b>                                | 926 L44      |
| Great engineers.                                      |              |
| <b>Lodge, Sir Oliver Joseph.</b>                      | 520.9 L76    |
| Pioneers of science. 1893.                            |              |
| <b>Miall, Louis Compton.</b>                          | 925.7 M66    |
| Early naturalists. 1912.                              |              |
| <b>Morton, Edward John Chalmers.</b>                  | 925.2 M92    |
| Heroes of science; astronomers. 1882.                 |              |
| <b>Muir, Matthew Moncrieff Pattison.</b>              | 925.4 M95    |
| Heroes of science; chemists. 1883.                    |              |
| <b>Munro, John.</b>                                   | 925 M96      |
| Heroes of the telegraph. 1891.                        |              |
| <b>Munro, John.</b>                                   | 925 M96p     |
| Pioneers of electricity. 1890.                        |              |
| <b>National Academy of Sciences.</b>                  | r 925 N15    |
| Biographical memoirs. v.1-6. 1877-1909.               |              |
| <b>Nature, 1869-1913. v.1-90.</b>                     | qr 505 N15   |
| <b>Oliver, Frederick William, ed.</b>                 | 925.8 O23    |
| Makers of British botany. 1913.                       |              |
| <b>Ostwald, Wilhelm.</b>                              | 925 O29      |
| Grosse männer. 1909.                                  |              |
| <b>Philosophical Society of Washington.</b>           | r 506 W27    |
| Bulletin. v.1-15. 1874-1910.                          |              |

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| Pioneers of progress. [1910.]                                     | 926 P64      |
| Poincaré, Jules Henri.  | 925 P74      |
| Savants et écrivains. [1910.]                                     |              |
| Popular science monthly, 1872-1912. v.1-81.                       | r 505 P8r    |
| Potamian, <i>Brother</i> .  | 925 P84      |
| Makers of electricity. 1909.                                      |              |
| Ramsay, <i>Sir</i> William.                                       | 540.4 Rr8    |
| Essays, biographical and chemical. 1908.                          |              |
| Royal Society of London.  | r 506 R81pr  |
| Proceedings, 1800-1912. v.1-87A.                                  |              |
| Schulze, Franz Arthur.  | 925.3 S39    |
| Die grossen physiker und ihre leistungen. 1910.                   |              |
| "Literatur," p.108.   |              |
| Smiles, Samuel.   | 926 S64i     |
| Industrial biography. 1889.                                       |              |
| Smiles, Samuel.   | 926 S64l     |
| Lives of the engineers. 5v. 1874.                                 |              |
| Smiles, Samuel.   | 926 S64      |
| Men of invention and industry. 1885.                              |              |
| Smithsonian Institution.  | r 506 S66    |
| Annual report, 1846-1911. v.1-66.                                 |              |
| Stirling, William.  | qr 926.1 S86 |
| Some apostles of physiology. 1902.                                |              |
| Stuart, Charles Beebe.  | r 926 S92    |
| Lives and works of civil and military engineers of America. 1871. |              |
| Thorpe, Thomas Edward.  | 925.4 T41    |
| Essays in historical chemistry. 1894.                             |              |
| Youmans, William Jay, <i>ed</i> .                                 | 925 Y35      |
| Pioneers of science in America. 1896.                             |              |

### Brief List of Other Books Useful for Reference

- American Iron & Steel Institute.** r 669.106 A51  
Biographical directory.
- Atkinson, William Biddle, ed.** qr 926.1 A87  
Biographical dictionary of contemporary American physicians and surgeons. 1880.
- Benjamin, Park.** 537.09 B43  
Intellectual rise of electricity. 1895.  
Contains many short biographical sketches of electricians.
- Britten, Frederick James.** 681 B750  
Old clocks and watches and their makers. 1899.  
Contains alphabetical list of about 8,000 clockmakers and watchmakers.
- Busbey, T. Addison, comp.** r 926.5 B95  
Biographical directory of the railway officials of America. 1901-06.
- Cajori, Florian.** 510.9 C12  
History of mathematics. 1906.  
Short biographies of mathematicians.
- Cajori, Florian.** 530.9 C12  
History of physics. 1899.  
Full of short sketches of physicists.
- Cassino, Samuel Edson, comp.** r 502 C26  
Naturalists' directory, 1890, 1895, 1898, 1914.
- Cattell, James McKeen, ed.** qr 925 C28  
American men of science; a biographical directory [1906, 1910].
- Doctor's who's who.** 1906. r 926.1 D66  
Aims to include the names of all foreign physicians of extraordinary repute, and of American physicians who are either authors of medical works, professors in recognized colleges conferring the M. D. degree, editors of prominent medical journals, superintendents of important state medical institutions or presidents of important medical societies.
- Francis, Samuel Ward.** r 926.1 F86  
Biographical sketches of distinguished living New York physicians. 1867.
- Goddard, Dwight.** 926 G54  
Eminent engineers. 1906.
- Grahame-White, Claude, & Harper, Harry.** 533.652 G77  
The aeroplane, past, present and future. 1911.  
Briefest notes of aviators (pilots).
- Harshberger, John William.** r 925.8 H31  
The botanists of Philadelphia and their work. 1899.  
Biographical sketches. Appendixes give lists of members of the Philadelphia Botanical Club and of the Botanical Society of Philadelphia.
- Hawkins, Nehemiah, comp.** r 537.03 H36  
Hawkins' electrical dictionary. 1910.  
Brief biographical notes.

- Hawkins, Nehemiah, comp.** r 621.03 H36  
 Hawkins' mechanical dictionary. 1910.  
 Includes concise biographies of noted engineers and inventors.
- Institution of Civil Engineers.** r 620.5 I247m v.0<sup>1-4</sup>  
 Subject index to Minutes of proceedings.  
 Indexes some 2,500 memoirs of deceased members.
- Jeaffreson, John Cordy.** 926.1 J22  
 Book about doctors. [1862.] Hurst.  
 Anecdotal sketches of noted physicians.
- Kelly, Howard Atwood.** 925.8 K17  
 Some American medical botanists commemorated in our botanical literature. 1914.
- Kelly, Howard Atwood, ed.** qr 926.1 K17  
 Cyclopaedia of American medical biography; comprising the lives of eminent deceased physicians from 1610 to 1910. 2v. 1912.  
 Bibliography, v.1, p.4-5.
- Lebon, Ernest.** 520.9 L47  
 Histoire abrégée de l'astronomie. 1899.  
 Contains brief sketches of eminent astronomers, and a biographical dictionary.
- Maiden, Joseph Henry.** r 925.8 M26  
 Records of Queensland botanists; a paper read before the [Australasian Association for the Advancement of Science]. 1909.  
 With this is bound his "Records of the earlier French botanists as regards Australian plants."
- Meyer, Ernst von.** 540.9 M65  
 History of chemistry. 1906.  
 Short biographies of chemists.
- Mumford, James Gregory.** 610.9 M96  
 Narrative of medicine in America.
- Oliver, Frederick William, ed.** 925.8 O23  
 Makers of British botany; a collection of biographies by living botanists. 1913.
- Poggendorff, Johann Christian, comp.** qr 016.5 P74  
 Biographisch-literarisches handwörterbuch zur geschichte der exacten wissenschaften, 1858-1904. v.1-4, in 6. 1863-1904.
- Roberts, Ethel.** 925.4 R53  
 Famous chemists. 1911.
- Schädler, Carl, ed.** r 925.4 S29  
 Biographisch-literarisches handwörterbuch der wissenschaftlich bedeutenden chemiker. 1891.  
 Brief biographical sketches of chemists and physicists who have been prominent in the development of chemistry. Gives dates, important work, etc.
- Toner, Joseph Meredith.** r 926 T61  
 Medical men of the Revolution, with a brief history of the medical department of the Continental army, containing the names of nearly 1,200 physicians. 1876.

- Verein Deutscher Ingenieure, Berlin.** qr 609 V27  
 Beiträge zur geschichte der technik und industrie; jahrbuch des Vereines Deutscher Ingenieure; hrsg. von Conrad Matschoss, 1909-13. v.1-5.  
 Contains biographies of engineers.
- Wait, John Cassan, comp.** r 926 W14  
 Calendar of invention and discovery. 1903.  
 Epitome of scientific biography. Each day of the year is marked by the names of two prominent scientists or inventors born on that day. Brief biographical sketch of each is given.
- Watson, Irving Allison, comp.** qr 926.1 W31  
 Physicians and surgeons of America; a collection of biographical sketches of the regular medical profession. 1896.
- Who's who in science (international), 1912-14.** r 925 W66
- Williams, Stephen West.** r 926.1 W74  
 American medical biography; or, Memoirs of eminent physicians, embracing principally those who have died since [1828]. 1845. Merriam.

## Men of Science and Industry

- Abbe**, Cleveland, b. 1838, *American meteorologist*.  
 Popular science monthly. 1888. v.32, p.400-408.....r 505 P81 v.32
- Abbe**, Ernst, 1840-1905, *German optician*.  
 Nature. 1905. v.71, p.301-302.....qr 505 N15 v.71
- Abbott**, Charles Conrad, b. 1843, *American naturalist*.  
 Popular science monthly. 1887. v.30, p.547-553.....r 505 P81 v.30
- Abbott**, Job, 1845-96, *American engineer*.  
 American Society of Civil Engineers. Transactions. 1896. v.36,  
 p.538-539.....r 620.5 A51 v.36
- \***Abernethy**, John, 1764-1831, *English physician*.  
 Bettany. Eminent doctors. 1885. v.1, p.226-241.....926.1 B46 v.1  
 Macilwain. Memoirs of John Abernethy, with a view of his lec-  
 tures, writings and character. 1853.....92 A146m
- Abert**, John James, 1788-1862, *American engineer*.  
 American Society of Civil Engineers. Proceedings. 1893. v.19,  
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- Abert**, Sylvanus Thayer, 1828-1903, *American engineer*.  
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- Acheson**, Edward Goodrich, b. 1856, *American chemist and inventor*.  
 Acheson. A pathfinder: discovery, invention and industry.  
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- Ackenheil**, Charles, 1841-90, *German-American engineer*.  
 American Society of Civil Engineers. Proceedings. 1891. v.17,  
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- \***Acland**, Sir Henry Wentworth, 1815-1900, *English physician and  
 anatomist*.  
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- \***Adams**, John Couch, 1819-92, *English astronomer*.  
 American Academy of Arts and Sciences. Proceedings. 1892. v.27,  
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 Ball. Great astronomers. 1895. p.354-372.....925.2 B21  
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- \***Addison**, Thomas, 1793-1860, *English physician*.  
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- Adgate**, George, 1845-1909, *American engineer*.  
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 p.514-516. ....r 620.5 A51 v.65

- Agassiz, Alexander Emmanuel Rodolphe, 1835-1910, *Swiss-American naturalist.***  
 Agassiz, G. R. ed. Letters and recollections of Alexander Agassiz, with a sketch of his life and work. 1913.....92 A2622a  
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- Agassiz, Louis, 1807-73, *Swiss-American naturalist.***  
 Agassiz, Mrs Louis. Louis Agassiz; his life and correspondence. 1893.....92 A262a  
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 Gould. Louis Agassiz. 1901.....92 A262g  
 Jordan. Leading American men of science. 1910. p.147-169.....925 J42  
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 Marcou. Life, letters and works of Louis Agassiz. 2v. 1896.....92 A262m  
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 Whipple. Recollections of eminent men. 1900. p.77-118..920 W624  
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 Adams, J. Howe-. History of the life of D. Hayes Agnew. 1892.....q 92 A273a
- Ainsworth, Danforth Hurlbut, 1828-1904, *American engineer.***  
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- Aitchison, James Edward Tierney, 1835-98, English botanist.**  
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- \*Aitken, Sir William, 1825-92, English physician.**  
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 p.XIV-XVI.....r 506 R81pr v.55
- Albertus Magnus, 1206(?)—80, German scientist.**  
 Townsend. Great schoolmen of the middle ages. 1905. p.163-  
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 Walsh. Catholic churchmen in science. 1906. v.2, p.21-58..509 W18 v.2
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- Alexander, John Henry, 1812-67, American geologist.**  
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- Alexander, Stephen, 1806-83, American astronomer.**  
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- Allen, Theodore, 1840-90, American engineer.**  
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- Allhusen, Christian, 1806-90, German-English chemical manufacturer.**  
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- Allis, Edward Phelps, 1824-89, American engineer.**  
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- \*Allman, George James, 1812-98, Irish zoölogist.**  
 Nature. 1898. v.59, p.202-204.....qr 505 N15 v.59  
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- Allman, George Johnston, 1824-1904, *Irish mathematician.***  
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- Ampère, André Marie, 1775-1836, *French physicist and electrician.***  
 Ampère. Journal et correspondance; recueillis par Mme [Henriette Chevreux]. 1872.....92 A526a  
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- Anderson, Adna, 1827-89, *American engineer.***  
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- Anderson, George Bonbright, 1853-96, *American physician.***  
 Anderson, W. C. In memory of George Bonbright Anderson.  
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- \*Anderson, John, 1833-1900, *Scottish naturalist.***  
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- Andral, Gabriel, 1797-1876, *French physician.***  
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- \*Andrews, Thomas, 1813-85, *Irish chemist.***  
 Nature. 1885. v.33, p.157-159.....qr 505 N15 v.33  
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- Andrews, Thomas, 1847-1907, *English metallurgist.***  
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- Ångström, Anders Jonas, 1814-74, *Swedish physicist.***  
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- Ångström, Knut Johan, 1857-1910, *Swedish physicist.***  
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- Ansley, George Doane, 1836-83, *Canadian engineer.***  
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- Antisell, Thomas, 1817-93, *Irish geologist and chemist.***  
 Philosophical Society of Washington. Bulletin. 1896. v.13, p.367-  
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 Royal Society of London. Proceedings. 1867. v.15,  
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- Arago**, Dominique François Jean, 1786–1853, *French physicist and astronomer*.  
 Littell's living age. 1846. v.II, p.140–148. . . . . r 051 L74 v.11  
 Popular science monthly. 1886. v.30, p.259–266. . . . . r 505 P81 v.30  
 Smithsonian Institution. Annual report. 1870. v.25, p.145–  
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- Archbald**, James, 1838–1910, *American engineer*.  
 American Society of Civil Engineers. Transactions. 1911. v.72,  
 p.586–588. . . . . r 620.5 A51 v.72
- \***Archer**, William, 1830–97, *Irish naturalist*.  
 Royal Society of London. Proceedings. 1898. v.62,  
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- Argelander**, Friedrich Wilhelm August, 1799–1875, *German astronomer*.  
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## Classified List of Names

### Agriculturists

Lawes, *Sir* J. B.  
Miles, Manly.  
Serres, Olivier de, *seigneur du Pradel*.  
Wilson, G. F.  
Yarranton, Andrew.

### Alchemists

Paracelsus.

### Anatomists

*See also* Physiologists.  
Acland, *Sir* H. W.  
Bichat, M. F. X.  
Bischoff, T. L. W. von.  
Davy, John.  
Fabricius, Hieronymus.  
Gegenbaur, Carl.  
Goodsir, John.  
Grant, R. E.  
Henle, F. G. J.  
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Humphry, *Sir* G. M.  
Kölliker, R. A. von.  
Lower, Richard.  
Marshall, John.  
Owen, *Sir* Richard.  
Parker, W. K.  
Rathke, Heinrich.  
Steno, Nicolaus.  
Struthers, *Sir* John.  
Tiedemann, Friedrich.  
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### Anthropologists

Beddoe, John.  
Broca, Paul.  
Flower, *Sir* W. H.  
Galton, *Sir* Francis.  
Jones, William.  
Mallery, Garrick.  
Montegazza, Paolo.  
Morgan, L. H.  
Mortillet, L. L. G. de.

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Putnam, F. W.  
Royer, C. A.  
Schoolcraft, H. R.  
Tylor, *Sir* E. B.

### Astronomers

Adams, J. C.  
Airy, *Sir* G. B.  
Alexander, Stephen.  
Arago, D. F. J.  
Argelander, F. W. A.  
Bache, A. D.  
Bailly, J. S.  
Banneker, Benjamin.  
Baxendell, Joseph.  
Behaim, Martin.  
Bond, G. P.  
Bond, W. C.  
Bradley, James.  
Brahe, Tycho.  
Bravais, Auguste.  
Brinkley, John.  
Brisbane, *Sir* T. M.  
Carlini, Francesco.  
Caswell, Alexis.  
Common, A. A.  
Copernicus.  
Crawford, J. L. L.  
Delambre, J. B. J.  
De la Rue, Warren.  
Delaunay, C. E.  
Draper, Henry.  
Dunkin, Edward.  
Ellery, R. L. J.  
Encke, J. F.  
Faye, H. A. É. A.  
Ferguson, James.  
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Galileo.  
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**Astronomers—continued**

Grant, Robert.  
 Gydén, J. A. H.  
 Hall, Asaph.  
 Halley, Edmund.  
 Hamilton, *Sir* W. R.  
 Hansen, P. A.  
 Harkness, William.  
 Harriot, Thomas.  
 Herschel, A. S.  
 Herschel, *Sir* J. F. W.  
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 Holden, E. S.  
 Houzeau de Lehaie, J. C.  
 Hubbard, J. S.  
 Huggins, *Sir* William.  
 Huygens, Christiaan.  
 Janssen, P. J. C.  
 Johnson, M. J.  
 Joly, C. J.  
 Keeler, J. E.  
 Kepler, Johann.  
 Langley, S. P.  
 Laplace, P. S. *marquis* de.  
 Lassell, William.  
 Leverrier, U. J. J.  
 Littrow, C. L. von.  
 Loewy, Maurice.  
 Loomis, Elias.  
 Lovering, Joseph.  
 Lubbock, *Sir* J. W.  
 Lyman, C. S.  
 McClean, Frank.  
 Maclear, *Sir* Thomas.  
 Mitchel, O. M.  
 Müller, Johann.  
 Nasmyth, James.  
 Newall, R. S.  
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 Newton, H. A.  
 Olmsted, Denison.  
 Peirce, Benjamin.  
 Penrose, F. C.  
 Perry, S. J.  
 Peters, C. H. F.  
 Plano, G. A. A.  
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Pritchett, C. W.  
 Ptolemy.  
 Quetelet, L. A. J.  
 Rittenhouse, David.  
 Roberts, Isaac.  
 Rogers, W. A.  
 Rosse, Laurence Parsons, *earl of*.  
 Rosse, William Parsons, *earl of*.  
 Rümker, C. L. C.  
 Russell, H. C.  
 Rutherford, L. M.  
 Safford, T. H.  
 Schiaparelli, G. V.  
 Schmidt, J. F.  
 Schönfeld, Eduard.  
 Secchi, Angelo.  
 Segner, J. A.  
 Sheepshanks, Richard.  
 Smyth, W. H.  
 South, *Sir* James.  
 Stone, E. J.  
 Struve, F. G. W.  
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 Thales.  
 Tisserand, F. F.  
 Todd, *Sir* Charles.  
 Walker, S. C.  
 Watson, J. C.  
 Wilson, W. E.  
 Winlock, Joseph.  
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 Young, C. A.

**Bacteriologists**

Kanthack, A. A.  
 Koch, Robert.  
 Pasteur, Louis.  
 Reed, Walter.  
 Sternberg, G. M.  
 Virchow, Rudolf.

**Biologists**

*See also* Zoölogists.

Baer, K. E. von.  
 Balfour, F. M.  
 Bastian, H. C.  
 Duclaux, Émile.

**Biologists—continued**

Haeckel, Ernst.  
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 Mendel, G. J.  
 Mivart, St. G. J.  
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 Romanes, G. J.  
 Ryder, J. A.  
 Schaudinn, Fritz.  
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**Botanists**

Aitchison, J. E. T.  
 Arnott, G. A. Walker-  
 Babington, C. C.  
 Baillon, H. E.  
 Ball, John.  
 Bartram, John.  
 Bary, H. A. de.  
 Bentham, George.  
 Berkeley, M. J.  
 Bigelow, Jacob.  
 Boissier, Edmond.  
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 Brandis, *Sir* Dietrich.  
 Braun, Alexander.  
 Brongniart, A. T.  
 Brown, Robert.  
 Candolle, A. L. P. P. de.  
 Candolle, A. P. de.  
 Carey, John.  
 Clarke, C. B.  
 Clinton, G. W.  
 Curtis, M. A.  
 Daubeny, C. G. B.  
 Decaisne, Joseph.  
 Dewey, Chester.  
 Dick, Robert.  
 Dickie, George.  
 Dillenius, J. J.  
 Emerson, G. B.  
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 Falconer, Hugh.  
 Fendler, Augustus.  
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 Greene, B. D.  
 Griffith, William.  
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 Haller, Albrecht von.  
 Hanbury, Daniel.  
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 Heer, Oswald.  
 Henfrey, Arthur.  
 Henslow, J. S.  
 Hill, John.  
 Hofmeister, W. F. B.  
 Hooker, *Sir* J. D.  
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 Hosack, David.  
 James, T. P.  
 Kerner, Anton, *ritter von Marilaun*.  
 King, *Sir* George.  
 Koch, Karl.  
 Lesquereux, Leo.  
 Lindley, John.  
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 Lowell, J. A.  
 Marshall, Humphry.  
 Martius, K. F. P. von.  
 Maximowicz, C. J.  
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 Mohl, Hugo von.  
 Morison, Robert.  
 Muhlenberg, G. H. E.  
 Müller, F. J. H. von.  
 Nägeli, K. W. von.  
 Nuttall, Thomas.  
 Palmer, Edward.  
 Parry, C. C.  
 Pringsheim, Nathanael.  
 Roeper, J. A. C.  
 Royle, J. F.  
 Sachs, Julius von.  
 Saporta, Gaston, *marquis de*.  
 Sartwell, H. P.  
 Schimper, A. F. W.  
 Schweinitz, L. D. von.  
 Short, C. W.  
 Smith, *Sir* J. E.  
 Spruce, Richard.  
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**Botanists—continued**

Sullivant, W. S.  
Torrey, John.  
Trimen, Henry.  
Tuckerman, Edward.  
Vasej, George.  
Wallich, Nathaniel.  
Wallis, Gustav.  
Ward, H. M.  
Ward, N. B.  
Watson, Sereno.  
Welwitsch, Frederik.  
Wight, Robert.  
Wright, Charles.

**Chemical manufacturers**

Allhusen, Christian.  
Blake, J. H.  
Cabot, Samuel.  
Deacon, Henry.  
Gamble, J. C.  
Gossage, William.  
Kurtz, Andreas.  
Muspratt, James.  
Perkin, *Sir* W. H.  
Shanks, James.  
Spence, Peter.

**Chemists**

Acheson, E. G.  
Andrews, Thomas.  
Antisell, Thomas.  
Apjohn, James.  
Avery, Charles.  
Bacon, John.  
Berthelot, P. E. M.  
Berthollet, C. L.  
Berzelius, J. J.  
Black, Joseph.  
Boisbaudran, Lecoq de.  
Bolton, H. C.  
Booth, J. C.  
Boussingault, J. B.  
Boyle, Robert.  
Brande, W. T.  
Bridges, Robert.  
Bunsen, R. W.  
Cannizzaro, Stanislaw.  
Cavendish, Henry.  
Chandler, C. F.

**Chemists—continued**

Chevreul, M. E.  
Chittenden, R. H.  
Clarke, F. W.  
Cook, G. H.  
Cooke, J. P.  
Crookes, *Sir* William.  
Crum, Walter.  
Dalton, John.  
Dana, S. L.  
Davy, *Sir* Humphry.  
Despretz, C. M.  
Dexter, W. P.  
Divers, Edward.  
Draper, J. W.  
Drown, T. M.  
Dudley, C. B.  
Dumas, J. B. A.  
Duppa, B. F.  
Dupré, August.  
Faraday, Michael.  
Frankland, *Sir* Edward.  
Frazer, J. F.  
Friedel, Charles.  
Fristoe, E. T.  
Gadolin, Johan.  
Gamble, Arthur.  
Gay-Lussac, J. L.  
Genth, F. A.  
Gerhardt, C. F.  
Gibbs, O. W.  
Gilbert, *Sir* J. H.  
Gladstone, J. H.  
Gore, George.  
Graham, Thomas.  
Hare, Robert.  
Hayes, A. A.  
Hill, H. B.  
Hoff, J. H. van't.  
Hofmann, A. W. von.  
Hoppe-Seyler, Felix.  
Horsford, E. N.  
Johnson, P. N.  
Johnson, S. W.  
Joy, C. A.  
Kane, *Sir* R. J.  
Kekulé, F. A.  
Kopp, Hermann.

**Chemists—continued**

Lavoisier, A. L.  
 Lea, M. C.  
 Liebig, Justus, *baron* von.  
 Malaguti, F. J. M.  
 Marignac, J. C. G. de.  
 Matthiessen, Augustus.  
 Mendeléeff, D. I.  
 Merrick, J. M.  
 Meyer, J. L.  
 Meyer, Victor.  
 Mitscherlich, Eilhardt.  
 Mohr, Friedrich.  
 Moissan, Henri.  
 Mond, Ludwig.  
 Mulder, G. J.  
 Nason, H. B.  
 Nichols, W. R.  
 Nilson, L. F.  
 Norton, L. M.  
 Pasteur, Louis.  
 Pettenkofer, Max von.  
 Playfair, Lyon, *baron*.  
 Porrett, Robert.  
 Priestley, Joseph.  
 Roebuck, John.  
 Rogers, J. B.  
 Rogers, R. E.  
 Roscoe, *Sir* H. E.  
 Rose, Heinrich.  
 Russell, W. J.  
 Sainte-Claire Deville, H. É.  
 Scheele, K. W.  
 Schönbein, C. F.  
 Schorlemmer, Carl.  
 Schunck, H. E.  
 Shenstone, W. A.  
 Silliman, Benjamin, 1779–1864.  
 Silliman, Benjamin, 1816–85.  
 Simpson, Maxwell.  
 Smith, J. L.  
 Smith, R. A.  
 Smithson, James.  
 Stahl, G. E.  
 Stas, J. S.  
 Stenhouse, John.  
 Stöckhardt, J. A.  
 Thénard, L. J. *baron*.

**Chemists—continued**

Thompson, C. O.  
 Thomsen, Julius.  
 Valentinus, Basilius.  
 Voelcker, J. C.  
 Wagner, J. R. von.  
 Warington, Robert, 1807–67.  
 Warington, Robert, 1838–1907.  
 Warren, C. M.  
 Weldon, Walter.  
 Williams, Greville.  
 Williams, W. M.  
 Williamson, A. W.  
 Wilson, G. F.  
 Wislicenus, Johannes.  
 Wöhler, Friedrich.  
 Wright, C. R. A.  
 Wurtz, C. A.  
 Zinin, Nicholas.

**Coach-builders**

Bianconi, Charles.

**Conchologists**

*See also* Naturalists.

Jeffreys, J. G.  
 Lea, Isaac.

**Crystallographers**

*See also* Mineralogists.

Des Cloizeaux, A. L. O. L.  
 Maskelyne, M. H. N. S.  
 Miller, W. H.  
 Mitscherlich, Eilhardt.

**Electricians**

*See also* Engineers, Electrical.—  
 Magneticians.

Ampère, A. M.  
 Beccaria, G. B.  
 Cooke, *Sir* W. F.  
 Davenport, Thomas.  
 Edison, T. A.  
 Farmer, M. G.  
 Gilbert, William.  
 Gray, Elisha.  
 Green, Norvin.  
 Hamblet, James.  
 Harris, *Sir* W. S.  
 Hughes, D. E.  
 Jenkin, H. C. F.  
 La Rive, A. A. de.

**Electricians—continued**

Nollet, J. A.  
Röntgen, W. C.  
Salisbury, R. A. T. Gascoyne  
    Cecil, *marquis of*.  
Schulze-Berge, Franz.  
Volta, Alessandro, *conte*.  
Weber, W. E.

**Engineers**

*See also* Railroad-builders.

Abbott, Job.  
Abert, J. J.  
Abert, S. T.  
Ackenheil, Charles.  
Adgate, George.  
Ainsworth, D. H.  
Aldrich, J. C.  
Allen, Horatio.  
Allen, Theodore.  
Allis, E. P.  
Anderson, Adna.  
Ansley, G. D.  
Appold, J. G.  
Archbald, James.  
Arrol, *Sir* William.  
Aspinwall, W. H.  
Atkinson, J. B.  
Atwood, W. H.  
Avery, John.  
Bailey, G. I.  
Bailey, T. N.  
Baker, *Sir* Benjamin.  
Baldwin, G. R.  
Baldwin, H. F.  
Baldwin, S. W.  
Barlow, P. W.  
Barnard, J. F.  
Barnes, D. L.  
Barnes, James.  
Barriger, J. W.  
Bateman, J. F.  
Bates, D. S.  
Bayley, G. W. R.  
Becker, M. J.  
Belknap, M. S.  
Bell, G. J.  
Bell, H. P.  
Bell, J. E.

**Engineers—continued**

Berrian, R. M.  
Bessemer, *Sir* Henry.  
Biddle, W. F.  
Bishop, T. S.  
Blackwell, Charles.  
Blaisdell, A. H.  
Bogart, J. P.  
Bond, F. W.  
Booker, B. F.  
Boulton, Matthew.  
Bouscaren, L. G. F.  
Breckinridge, Cabell.  
Briggs, Robert.  
Brinckerhoff, H. W.  
Brindley, James.  
Brodhead, C. E.  
Brown, L. W.  
Brunel, I. K.  
Brunel, *Sir* M. I.  
Buck, L. L.  
Burns, Justin.  
Burton, S. B.  
Butts, E. P.  
Buxton, Clifford.  
Caldwell, G. B.  
Caligny, A. F. Hüe, *marquis de*.  
Campbell, A. J.  
Campbell, Allan.  
Campbell, C. E. H.  
Canet, Gustave.  
Carothers, D. D.  
Carpenter, C. A.  
Carpenter, F. R.  
Cary, E. S.  
Casey, T. L.  
Cass, G. W.  
Chanute, Octave.  
Chase, W. B.  
Cheney, J. E.  
Chesbrough, E. S.  
Church, G. E.  
Cisneros, F. J.  
Clapp, L. R.  
Clapp, W. B.  
Clarke, H. W.  
Clarke, T. C.  
Cleeman, T. M.

**Engineers—continued**

Clemens, E. V.  
Cleverdon, H. L.  
Cobb, R. L.  
Coffin, F. C.  
Colburn, Warren.  
Colburn, Zerach.  
Colladon, J. D.  
Colman, I. D.  
Comfort, S. G.  
Connor, Addison.  
Coode, *Sir* John.  
Cooke, R. L.  
Correa, E. A.  
Coryell, Martin.  
Covode, J. H.  
Coxe, E. B.  
Craighill, W. P.  
Croes, J. J. R.  
Crosby, Wilson.  
Cunningham, J. M.  
Cunningham, P. D.  
Curtis, W. G.  
Cushing, S. B.  
Cutshaw, W. E.  
Darling, E. A.  
Davidson, M. O.  
Davis, Charles.  
Davis, F. L.  
Davis, J. W.  
Dawley, E. P.  
Deans, C. H.  
Dearborn, W. L.  
Derby, George.  
Dickinson, P. P.  
Dillon, Sidney.  
Diven, A. S.  
Doane, Thomas.  
Douglas, Benjamin.  
Douglass, D. B.  
Douglass, *Sir* J. N.  
Duane, J. C.  
Du Barry, J. N.  
Dudley, C. T.  
Dun, James.  
Eads, J. B.  
Earley, J. E.  
Edwards, William.

**Engineers—continued**

Eiffel, Gustave.  
Ellet, Charles.  
Ellicott, Andrew.  
Ellis, N. W.  
Ellis, T. G.  
Emery, C. E.  
Emigh, J. H.  
Emmet, T. A.  
Emmons, C. M.  
Emmons, S. F.  
Engle, R. L.  
Erdmann, E. E.  
Eustis, H. L.  
Evans, A. W. W.  
Ewing, W. B.  
Eyth, M. F. E. von.  
Fairbairn, *Sir* William.  
Falconnet, E. F.  
Farnam, Henry.  
Farnham, I. T.  
Farquhar, F. U.  
Feind, Bernhard.  
Felton, S. M.  
Ferrier, J. J.  
Field, B. K.  
Fink, Albert.  
Fisher, Elstner.  
Flad, Henry.  
Ford, A. L.  
Forrer, Samuel.  
Forshey, C. G.  
Fourneyron, Benoit.  
Fowler, C. E.  
Fowler, *Sir* John.  
Francis, J. B.  
Francis, James.  
Frazer, J. H.  
French, F. R.  
Frizell, J. P.  
Frost, B. D.  
Fteley, Alphonse.  
Fulton, Robert.  
Funiak, Frederick de.  
Gardner, H. A.  
Gelette, W. D.  
Gibbs, N. J.  
Gillespie, J. L.



**Engineers—continued**

Gillham, Robert.  
Gilliss, J. R.  
Gillmore, Q. A.  
Goad, C. E.  
Goodwin, H. S.  
Goodwin, J. M.  
Gorringer, H. H.  
Gottlieb, Abraham.  
Gould, E. S.  
Graff, Frederic.  
Graham, J. M.  
Grant, W. H.  
Grashof, Franz.  
Gravatt, William.  
Green, R. B.  
Greene, B. H.  
Greene, D. M.  
Greene, G. S.  
Greene, J. N.  
Greenwood, W. H.  
Griffen, John.  
Guild, J. C.  
Gzowski, *Sir* C. S.  
Hadsall, J. C.  
Hall, J. A.  
Hanna, W. S.  
Hardee, T. S.  
Harding, Henry.  
Harding, Horace.  
Hasbrouck, C. A.  
Haskell, C. F. B.  
Haslett, Sullivan.  
Haswell, C. H.  
Hatfield, R. G.  
Hawes, L. E.  
Hawkins, Irving.  
Hawkshaw, *Sir* John.  
Hawksley, Thomas.  
Hayes, R. S.  
Hegeman, A. B.  
Hemming, D. W.  
Henning, G. C.  
Henry, D. F.  
Hequembourg, C. E.  
Herbert, A. P.  
Hermany, Charles.  
Herrmann, F. G.

**Engineers—continued**

Herschel, Clemens.  
Hilgard, J. E.  
Hillman, C. F.  
Hinckley, J. F.  
Hirn, G. A.  
Hite-Smith, Van Dusen.  
Hobby, A. S.  
Hodgkinson, Eaton.  
Hoek, Jacobus van der.  
Hogg, J. B.  
Holbrook, H. R.  
Holley, A. L.  
Holloway, J. F.  
Holmes, E. M.  
Horan, J. J.  
Houston, John.  
Howe, H. J.  
Howell, G. W.  
Humphrey, H. C.  
Humphrey, John.  
Humphreys, Charles.  
Hunt, A. E.  
Hunt, C. W.  
Hunt, E. B.  
Hunt, Randell.  
Hutton, N. H.  
Hyde, W. B.  
Intze, Otto.  
Irwin, R. B.  
Jackson, William.  
James, J. C.  
Jenkin, H. C. F.  
Jervis, J. B.  
Johnson, C. R.  
Johnson, J. B.  
Johnson, W. C.  
Jones, W. R.  
Jordan, Gabriel.  
Judah, T. D.  
Keating, E. H.  
Keefer, Samuel.  
Kellogg, A. V.  
Kenly, E. M.  
Kernot, W. C.  
Kerr, W. C.  
Killebrew, Samuel.  
Kingman, Lewis.

**Engineers—continued**

Kingsley, W. C.  
Kirkwood, J. P.  
Knaudt, Adolf.  
Kneass, S. H.  
Kneass, Strickland.  
Knight, Jonathan.  
Knight, W. B.  
Knowlton, C. A.  
Körting, Ernst.  
Lane, Moses.  
Larcom, *Sir* Thomas.  
Latcha, J. A.  
Latham, N. S.  
Latimer, Charles.  
Latrobe, B. H.  
Laurie, James.  
Lawson, W. B.  
Leather, B. H.  
Lederle, G. A.  
Lesage, Louis.  
Lesseps, Ferdinand, *viscomte de*.  
Leverich, Gabriel.  
Lewerenz, A. C.  
Lewis, I. W. P.  
Libby, E. D.  
Lincoln, W. S.  
Lindenthal, Dominik.  
Linville, J. H.  
Locke, A. W.  
Locke, Joseph.  
Loiseau, É. F.  
Looker, H. B.  
Loring, C. H.  
Lotz, W. H.  
Lovett, T. D.  
Low, G. P.  
Lowthorp, F. C.  
McAlpine, W. J.  
McCalla, R. C.  
McCurdy, J. E.  
McGee, V. N.  
Mackall, B. F.  
McKay, J. E.  
McKean, Reginald.  
McKeown, Thomas.  
MacNaughton, James.  
McRee, William.

**Engineers—continued**

MacRitchie, Charles.  
McVean, J. J.  
Malézieux, Émile.  
Mallet, Robert.  
Marr, G. A.  
Martin, R. K.  
Mason, E. D.  
Matcham, C. A.  
Melcher, F. O.  
Mendell, G. H.  
Mercur, Frederick.  
Meriwether, Niles.  
Merrill, W. E.  
Metcalf, John.  
Michie, W. R.  
Miller, S. H.  
Miller, Silvanus.  
Mitchell, Alexander.  
Mitchell, S. A.  
Monroe, J. A.  
Morgan, C. H.  
Morison, G. S.  
Morley, J. H.  
Morley, W. R.  
Morris, Gouverneur.  
Morris, R. C.  
Morse, J. O.  
Murdoch, Gilbert.  
Murdock, William.  
Myddelton, *Sir* Hugh.  
Mylne, W. C.  
Neilson, Robert.  
Nelles, G. T.  
Newall, R. S.  
Newcomen, Thomas.  
Newell, John.  
Newton, *Sir* Isaac.  
Nichols, N. J.  
Nichols, O. F.  
Nichols, W. R.  
Nicholson, G. B.  
North, E. P.  
Northrup, H. F.  
Norton, F. O.  
Norton, W. A.  
Nourse, E. G.  
Noyes, A. F.

**Engineers—continued**

Ogden, W. B.  
Olney, La Fayette.  
Olney, R. B.  
Paddock, J. H.  
Paine, Charles.  
Paine, W. H.  
Pearson, W. A.  
Pennypacker, L. P.  
Perry, John.  
Philbrick, E. S.  
Phinney, H. W. B.  
Pierce, W. T.  
Pike, W. A.  
Poe, O. M.  
Pole, William.  
Poncelet, J. V.  
Pope, M. S.  
Pope, W. S.  
Porter, C. T.  
Post, J. C.  
Post, S. S.  
Potier, Alfred.  
Potts, J. D.  
Powell, C. F.  
Pratt, T. W.  
Prendergast, F. E.  
Price, P. M.  
Rafter, G. W.  
Randolph, J. L.  
Rankine, W. J. M.  
Raymond, T. L.  
Reed, E. M.  
Reed, W. W.  
Rees, W. M.  
Reeves, S. J.  
Reinholdt, K. O. P.  
Reiseger, M. J.  
Rendel, J. M.  
Rennie, John.  
Rhodes, Benjamin.  
Rice, E. C.  
Rich, W. W.  
Richardson, H. B.  
Riffle, A. S.  
Riggenbach, Nikolaus.  
Rinecker, Francis.  
Roberts, E. P.

**Engineers—continued**

Roberts, W. M.  
Roberts, William.  
Robinson, Moncure.  
Robinson, S. W.  
Rogers, Fairman.  
Rowe, S. M.  
Rowland, T. F.  
Rudloff, H. F.  
Russell, N. E.  
St. John, I. M.  
Sample, J. H.  
Scherzer, A. J.  
Scherzer, William.  
Schofield, M. W.  
Schuyler, Howard.  
Scott, W. L.  
Sears, A. F.  
Sears, W. H.  
Seaver, J. W.  
Seely, T. J.  
Sellers, Coleman.  
Seymour, Horatio.  
Shaler, I. A.  
Shima, Takejiro.  
Shinn, W. P.  
Shreeve, S. H.  
Sickels, F. E.  
Sickels, T. E.  
Siemens, *Sir* C. W.  
Simon, *Sir* John.  
Sites, W. W. C.  
Slataper, Felician.  
Sloan, R. I.  
Smeaton, John.  
Smedley, S. L.  
Smith, B. B.  
Smith, C. A.  
Smith, C. S.  
Smith, C. V.  
Smith, D. L.  
Smith, F. H.  
Smith, Hamilton.  
Smith, I. W.  
Smith, James.  
Smith, T. G.  
Spaulding, Ira.  
Spielmann, Arthur.

Engineers—*continued*

Sproul, A. A.  
Stanwood, J. H.  
Starling, William.  
Steele, H. M.  
Stephenson, George.  
Stephenson, Robert.  
Stevens, R. L.  
Stevenson, Robert.  
Stewart, D. A.  
Stites, A. C.  
Stixrud, Martinus.  
Stone, Waterman.  
Stoney, B. B.  
Storrow, C. S.  
Stratton, F. A.  
Stratton, G. D.  
Striedinger, J. H.  
Strobach, Paul von.  
Swan, C. H.  
Swift, J. G.  
Swift, McRee.  
Talcott, Cook.  
Talcott, W. H.  
Tatnall, George.  
Taylor, S. M.  
Taylor, W. D.  
Teigen, T. W. R.  
Telford, Thomas.  
Thayer, W. W.  
Thomas, A. T.  
Thomas, G. E.  
Thomas, J. R.  
Thompson, J. C.  
Thomson, G. H.  
Thorndike, J. L.  
Thorp, R. F.  
Tidd, M. M.  
Tingley, G. C.  
Toucey, J. M.  
Tower, A. B.  
Tracy, E. H.  
Tracy, J. F.  
Trowbridge, W. P.  
Truesdell, Charles.  
Tullock, A. J.  
Turner, W. T.

Engineers—*continued*

Tutton, C. H.  
Vaughan, F. W.  
Vaughn, C. G.  
Venturi, G. B.  
Vermuyden, *Sir* Cornelius.  
Vignoles, C. B.  
Waite, C. C.  
Walker, W. W.  
Walling, H. F.  
Wardlaw, J. R.  
Warren, G. K.  
Watson, W. P.  
Watt, James.  
Weber, M. M. *freiherr* von.  
Welch, Ashbel.  
Weld, F. F.  
Wellington, A. M.  
Wells, D. L.  
Whipple, Squire.  
White, G. H.  
White, W. H.  
Whitehurst, John.  
Whitelaw, John.  
Whitford, O. F.  
Wilkins, G. S.  
Willard, J. E.  
Williams, J. L.  
Williamson, W. G.  
Wilson, A. O.  
Wilson, J. A.  
Wilson, J. M.  
Wilson, W. W.  
Wood, C. W.  
Wood, Charles.  
Wood, De Volson.  
Wood, Nicholas.  
Woollard, G. C.  
Worthen, W. E.  
Worthington, H. R.  
Wright, H. G.  
Wright, W. W.  
Yarranton, Andrew.  
Yeatman, H. C.  
Yorke, Edward.  
Young, E. E.  
Young, W. C.  
Zeller, A. H.

**Engineers, Civil**

Childe, John.  
 Harbach, Frederick.  
 Rennie, George.  
 Rennie, *Sir* John.  
 Roberts, N. S.  
 Roebing, J. A.  
 Smith, W. F.  
 Stevenson, Alan.  
 Thomson, James.  
 Walker, James.  
 Watson, W. S.  
 White, Canvass.  
 Wright, Benjamin.

**Engineers, Electrical**

Ayrton, W. E.  
 Bauer, A. H.  
 Craigin, H. A.  
 Dorr, F. H.  
 Eickemeyer, Rudolf.  
 Greene, S. D.  
 Hopkinson, John.  
 Lufkin, H. L.  
 Perrine, F. A. C.  
 Pope, F. L.  
 Prescott, G. B.  
 Reckenzaun, Anthony.  
 Shallenberger, O. B.  
 Siemens, Werner von.  
 Wimshurst, James.

**Engineers, Mechanical**

Arkwright, *Sir* Richard.  
 Armstrong, W. G. *baron*.  
 Babcock, G. H.  
 Bauschinger, Johann.  
 Bramah, Joseph.  
 Clark, D. K.  
 Clement, Joseph.  
 Copeland, C. W.  
 Crompton, Samuel.  
 Davis, E. F. C.  
 Fritz, John.  
 Hackworth, Timothy.  
 Hargreaves, James.  
 Harvey, H. A.  
 Hedley, William.  
 Henney, J. B.  
 Hirsch, Joseph.

**Engineers, Mechanical—continued**

Hoadley, J. C.  
 Hobbs, A. C.  
 Hohlfeld.  
 Locke, S. D.  
 Maudslay, Henry.  
 Murray, Matthew.  
 Nasmyth, James.  
 Nicholson, W. T.  
 Penn, John.  
 Pickering, T. R.  
 Reading, R. B.  
 Reuleaux, Franz.  
 Reynolds, Edwin.  
 Richmond, George.  
 Roberts, Richard.  
 Schneider, Eugène.  
 Sellers, William.  
 Stieltjes, Frederick.  
 Thurston, R. H.  
 Tresea, Henri.  
 Trevithick, Richard.  
 Whitworth, *Sir* Joseph.  
 Wolf, R. E.  
 Wolff, A. R.

**Engineers, Military**

Armstrong, R. Y.  
 Barnard, J. G.  
 Benet, S. V.  
 Carnot, L. N. M. *comte*.  
 Cullum, G. W.  
 Everest, *Sir* George.  
 Haupt, Herman.  
 Humphreys, A. A.  
 Jervois, W. F. D.  
 Mahan, D. H.  
 Malus, É. L.  
 Meigs, M. C.  
 Michaelis, O. E.  
 Newton, John.  
 Pasley, *Sir* C. W.  
 Portlock, J. E.  
 Reid, *Sir* William.  
 Smith, W. F.  
 Totten, J. G.

**Engineers, Mining**

Blake, W. P.  
 Blandy, J. F.

**Engineers, Mining—continued**

Bramwell, J. H.  
Collins, A. L.  
Foster, *Sir* C. L.  
Gäetzschnann, M. F.  
Gruner, Louis.  
Hague, J. D.  
Heinrich, O. J.  
Patton, W. H.  
Petee, W. H.  
Pošepný, Franz.  
Rothwell, R. P.  
Schaufuss, E. C.  
Scranton, W. H.  
Stetefeldt, C. A.  
Taylor, John.

**Engineers, Naval**

Ericsson, John.  
Froude, William.  
Rodgers, John.  
Smith, David.

**Entomologists**

*See also* Naturalists.

Bonnet, Charles.  
Buckton, G. B.  
Fabre, J. H.  
Fitch, Asa.  
Frisch, J. L.  
Hagen, H. A.  
Huber, Francis.  
Le Conte, J. L.  
Lintner, J. A.  
Lyonet, Pierre.  
McLachlan, Robert.  
Müller, Fritz.  
Newport, George.  
Riley, C. V.  
Rosenhof, A. J. R. von.  
Spence, William.  
Stainton, H. T.

**Geographers and explorers**

*See also* Surveyors.

Bessels, Emil.  
Gannett, Henry.  
Ptolemy.  
Rennell, James.  
Rodgers, John.  
Schoolcraft, H. R.

**Geologists**

*See also* Mineralogists.

Alexander, J. H.  
Antisell, Thomas.  
Ashburner, C. A.  
Austen, R. A. C. Godwin-  
Ball, Valentine.  
Barrande, Joachim.  
Biggsby, J. J.  
Binney, E. W.  
Blake, W. P.  
Blanford, W. T.  
Boué, Ami.  
Bouvé, T. T.  
Bowman, Amos.  
Buch, C. L. *freiherr* von.  
Buckland, William.  
Buckley, E. R.  
Calvin, Samuel.  
Carter, H. J.  
Castillo, Antonio del.  
Chapin, J. H.  
Clarke, W. B.  
Claypole, E. W.  
Conybeare, W. D.  
Croll, James.  
Dana, J. D.  
Daubeny, C. G. B.  
Daubrée, G. A.  
Dawson, G. M.  
Dawson, *Sir* J. W.  
De la Beche, *Sir* H. T.  
Desmarest, Nicholas.  
Desor, Edouard.  
Dick, Robert.  
Duncan, P. M.  
Dwight, W. B.  
Egerton, *Sir* P. de M. G.  
Eldridge, G. H.  
Élie de Beaumont, J. B. A. L. L.  
Emmons, Ebenezer.  
Enniskillen, W. W. Cole, *earl*.  
Etheridge, Robert.  
Evans, *Sir* John.  
Fitton, W. H.  
Foote, A. E.  
Foster, *Sir* C. L.  
Frazer, Persifor.

**Geologists—continued**

Geikie, *Sir* Archibald.  
 Gibbs, George.  
 Grant, R. E.  
 Green, A. H.  
 Griffith, *Sir* R. J.  
 Guettard, J. É.  
 Guyot, A. H.  
 Haast, *Sir* Julius von.  
 Hall, C. W.  
 Hall, James.  
 Hartt, C. F.  
 Haughton, Samuel.  
 Hay, Robert.  
 Hayden, F. V.  
 Heilprin, Angelo.  
 Hicks, Henry.  
 Hitchcock, C. H.  
 Hitchcock, Edward.  
 Horner, Leonard.  
 Houghton, Douglass.  
 Howell, E. E.  
 Hudleston, W. H.  
 Hunt, T. S.  
 Hutton, F. W.  
 Hutton, James.  
 Irving, R. D.  
 Jackson, C. T.  
 James, J. F.  
 King, Clarence.  
 Knight, W. C.  
 Lacoe, R. D.  
 Lartet, É. A. I. H.  
 Lea, Isaac.  
 Le Conte, Joseph.  
 Lesley, J. P.  
 Lewis, H. C.  
 Logan, *Sir* W. E.  
 Lyell, *Sir* Charles.  
 McCalley, Henry.  
 McCoy, *Sir* Frederick.  
 McGee, W. J.  
 McMahan, C. A.  
 Marcou, Jules.  
 Marcy, Oliver.  
 Marsh, G. P.  
 Marsh, O. C.  
 Mather, W. W.

**Geologists—continued**

Medlicott, H. B.  
 Meek, F. B.  
 Michel-Lévy, Auguste.  
 Miller, Hugh.  
 Mills, J. E.  
 Mitchell, Elisha.  
 Moore, J. C.  
 Murchison, *Sir* R. I.  
 Neff, Peter.  
 Newberry, J. S.  
 Orton, Edward.  
 Owen, D. D.  
 Penfield, S. L.  
 Pengelly, William.  
 Perry, J. B.  
 Pettee, W. H.  
 Phillips, John.  
 Powell, J. W.  
 Prestwich, *Sir* Joseph.  
 Ramsay, *Sir* A. C.  
 Rand, T. D.  
 Richtofen, Ferdinand, *baron* von.  
 Rogers, H. D.  
 Russell, I. C.  
 Safford, J. M.  
 Sainte-Claire Deville, C. J.  
 Saussure, H. B. de.  
 Scrope, G. J. P.  
 Sedgwick, Adam.  
 Seeley, H. G.  
 Selwyn, A. R. C.  
 Shaler, N. S.  
 Sharpe, Daniel.  
 Sheaffer, P. W.  
 Silliman, Benjamin.  
 Smith, William.  
 Sorby, H. C.  
 Steno, Nicolaus.  
 Studer, Bernhard.  
 Suess, Eduard.  
 Tarr, R. S.  
 Topley, William.  
 Troost, Gerard.  
 Vanuxem, Lardner.  
 Verneuil, P. É. P. de.  
 Walcott, C. D.  
 Werner, A. G.

**Geologists—continued**

Whitfield, R. P.  
 Whitney, J. D.  
 Williams, G. H.  
 Williams, J. F.  
 Winchell, Alexander.  
 Worthen, A. H.  
 Wright, A. A.  
 Wright, G. F.  
 Zittel, K. A. von.

**Hydrographers**

Baird, A. W.  
 Beautemps-Beaupré, C. F.  
 Davis, C. H.  
 Evans, *Sir* F. J. O.  
 Fitz Roy, Robert.  
 Richards, *Sir* G. H.  
 Smyth, W. H.  
 Spratt, T. A. B.  
 Washington, John.  
 Wharton, *Sir* W. J. L.

**Ichthyologists**

*See also* Naturalists.

Earll, R. E.  
 Lesueur, C. A.  
 Storer, D. H.  
 Traquair, R. H.

**Instrument makers (scientific instruments)**

Clark, A. G.  
 Clark, Alvan.  
 Clark, G. B.  
 Hamblet, James.  
 Harrison, John.  
 Norman, Robert.  
 Ramsden, Jesse.  
 Reichenbach, Georg von.  
 Simms, William.  
 Stanley, W. F.  
 Temple, J. H.  
 Zentmayer, Joseph.

**Inventors**

Acheson, E. G.  
 Arkwright, *Sir* Richard.  
 Batchelder, J. M.  
 Blanchard, Thomas.  
 Brooke, Charles.  
 Bushnell, David.

**Inventors—continued**

Cartwright, Edmund.  
 Cooper, Peter.  
 Donkin, Bryan.  
 Edison, T. A.  
 Evans, Oliver.  
 Fitch, John.  
 Franklin, Benjamin.  
 Goodyear, Charles.  
 Hargreaves, James.  
 Henry, William.  
 Holden, *Sir* Isaac.  
 Howe, Elias.  
 Lombe, John.  
 McCormick, C. H.  
 Mergenthaler, Ottmar.  
 Morse, S. F. B.  
 Nobel, A. B.  
 Perkins, Jacob.  
 Pitman, *Sir* Isaac.  
 Saxton, Joseph.  
 Sholes, C. L.  
 Smith, *Sir* F. P.  
 Stanhope, C. M. S.  
 Stevens, R. L.  
 Tilghman, B. C.  
 Whitney, Eli.  
 Whittemore, Amos.  
 Woodcroft, Bennet.  
 Worcester, Edward Somerset,  
*marquis of.*

**Iron manufacturers**

*See also* Metallurgists.

Brown, *Sir* John.  
 Cort, Henry.  
 Crawshay, R. T.  
 Darby, Abraham.  
 Dudley, Dud.  
 Fritz, John.  
 Krupp, Alfred.  
 Reynolds, Richard.  
 Wilkinson, John.

**Magneticians**

*See also* Electricians.

Broun, J. A.  
 Evans, *Sir* F. J. O.  
 Hansteen, Christopher.  
 Lloyd, Humphrey.



**Magneticians—continued**

Neumayer, Georg von.  
Riddell, C. J. B.  
Sabine, *Sir* Edward.

**Manufacturers**

Cooper, Peter.  
McCormick, C. H.  
Slater, Samuel.

**Mathematicians**

Allman, G. J.  
Babbage, Charles.  
Banneker, Benjamin.  
Barlow, Peter.  
Beltrami, Eugenio.  
Bertrand, Joseph.  
Boole, George.  
Bowditch, Nathaniel.  
Carnot, L. N. M. *comte*.  
Casey, John.  
Cauchy, Augustin.  
Cayley, Arthur.  
Chasles, Michel.  
Chauvenet, William.  
Christie, S. H.  
Clifford, W. K.  
Condorcet, M. J. A. N. *Caritat*,  
*marquis de*.  
Cremona, Luigi.  
Darwin, *Sir* G. H.  
Davies, Charles.  
De Morgan, Augustus.  
Descartes, René.  
Dirichlet, P. G. L.  
Ellis, A. J.  
Euclid.  
Ferrers, N. M.  
Fourier, J. B. J. *baron*.  
Frost, Percival.  
Gaskin, Thomas.  
Gauss, K. F.  
Gompertz, Benjamin.  
Graves, Charles.  
Halphen, G. H.  
Hamilton, *Sir* W. R.  
Harriot, Thomas.  
Hayward, R. B.  
Hennessy, Henry.  
Hermite, Charles.

**Mathematicians—continued**

Hill, Thomas.  
Hirst, T. A.  
Jeffery, H. M.  
Joly, C. J.  
Kelland, Philip.  
Lagrange, J. L.  
Laguerre, E. N.  
Legendre, A. M.  
Lie, Sophus.  
Loomis, Elias.  
Lubbock, *Sir* J. W.  
Newton, H. A.  
Newton, *Sir* Isaac.  
Oliver, J. E.  
Parkinson, Stephen.  
Peacock, George.  
Plücker, Julius.  
Poinsot, Louis.  
Price, Bartholomew.  
Ptolemy.  
Quetelet, L. A. J.  
Riemann, G. F. B.  
Routh, E. J.  
Runkle, J. D.  
Salmon, George.  
Segner, J. A.  
Simson, Robert.  
Smith, Archibald.  
Smith, H. J. S.  
Stokes, *Sir* G. G.  
Strong, Theodore.  
Sturm, J. C. F.  
Sylvester, J. J.  
Tait, P. G.  
Thales.  
Todhunter, Isaac.  
Walker, J. J.  
Watson, H. W.  
Weierstrass, K. T. W.

**Metallurgists**

*See also* Iron manufacturers.

Andrews, Thomas.  
Austin, T. S.  
Bell, *Sir* I. L.  
Bessemer, *Sir* Henry.  
Cheever, B. W.  
Cooper, Edward.

**Metallurgists—continued**

Davenport, R. W.  
Dudley, Dud.  
Egleston, Thomas.  
Frazier, B. W.  
Fritz, John.  
Goetz, G. W.  
Holley, A. L.  
Huntsman, Benjamin.  
Johnson, P. N.  
Jordan, Samson.  
Kerl, Bruno.  
Metcalf, William.  
Mushet, David.  
Neilson, J. B.  
Neilson, W. G.  
Percy, John.  
Phillips, J. A.  
Richter, Theodor.  
Roberts-Austen, *Sir* W. C.  
Roebuck, John.  
Schneider, Eugène.  
Siemens, *Sir* C. W.  
Snelus, G. J.  
Thomas, S. G.  
Trippel, Alexander.  
Tunner, Peter, *ritter* von.  
Tyson, J. W.  
Wedding, Hermann.

**Meteorologists**

Abbe, Cleveland.  
Baxendell, Joseph.  
Blanford, H. F.  
Boileau, J. T.  
Broun, J. A.  
Buchan, Alexander.  
Coffin, J. H.  
Curtis, G. E.  
Darwin, *Sir* G. H.  
Dunkin, Edward.  
Eliot, *Sir* John.  
Espy, J. P.  
Ferrel, William.  
Fitz Roy, Robert.  
Glaisher, James.  
Hazen, H. A.  
Hazen, W. B.  
Hoffmeyer, N. H.

**Meteorologists—continued**

Houzeau de Lehaie, J. C.  
Howard, Luke.  
Jelinek, Carl.  
Lowe, E. J.  
Maury, M. F.  
Meldrum, Charles.  
Myer, A. J.  
Neumayer, Georg von.  
Olmsted, Denison.  
Osler, A. F.  
Peltier, J. C. A.  
Redfield, W. C.  
Rotch, A. L.  
Sainte-Claire Deville, C. J.  
Strachey, *Sir* Richard.  
Symons, G. J.  
Teisserenc de Bort, L. P.  
Waterhouse, John.  
Welsh, John.

**Microscopists**

Beale, L. S.  
Dallinger, W. H.  
Quekett, J. T.

**Mineralogists**

*See also* Crystallographers.—  
Geologists.

Brooke, H. J.  
Brush, G. J.  
Egleston, Thomas.  
Friedel, Charles.  
Haidinger, W. K. *ritter* von.  
Haüy, R. J.  
Jameson, Robert.  
Lea, Isaac.  
Rand, T. D.  
Rose, Gustav.  
Shepard, C. U.  
Smithson, James.  
Werner, A. G.

**Naturalists**

*See also* Conchologists.—Ento-  
mologists.—Ichthyologists.—  
Ornithologists.

Abbott, C. C.  
Agassiz, A. E. R.  
Agassiz, Louis.  
Anderson, John.

**Naturalists—continued**

Archer, William.  
 Audubon, J. J.  
 Baird, S. F.  
 Barton, B. S.  
 Bartram, William.  
 Bates, H. W.  
 Belon, Pierre.  
 Beverley, C. J.  
 Bock, Hieronymus.  
 Brady, H. B.  
 Brunfels, Otto.  
 Buckland, F. T.  
 Buffon, G. L. L. *comte de*.  
 Butler, Charles.  
 Caius, Joannes.  
 Carpenter, W. B.  
 Cesalpini, Andrea.  
 Conrad, T. A.  
 Cope, E. D.  
 Cuvier, G. L. C. D. *baron*.  
 Dallinger, W. H.  
 Darwin, Charles.  
 Eaton, Amos.  
 Edward, Thomas.  
 Ehrenberg, C. G.  
 Forbes, Edward.  
 Fuchs, Leonhard.  
 Gesner, Conrad.  
 Goode, G. B.  
 Gould, A. A.  
 Grew, Nehemiah.  
 Gundlach, Johann.  
 Gunn, R. C.  
 Haldeman, S. S.  
 Hewitson, W. C.  
 Holbrook, J. E.  
 Hooke, Robert.  
 Horsfield, Thomas.  
 Humboldt, Alexander von.  
 Jeffreys, J. G.  
 Jussieu, A. L. de.  
 Kaye, John.  
 Key, John.  
 Kirtland, J. P.  
 Lamarck, J. B. P. A. de *Monet*,  
*chevalier de*.  
 Lapham, I. A.

**Naturalists—continued**

Leidy, Joseph.  
 L'Escluse, Charles de.  
 Lesueur, C. A.  
 Lister, Martin.  
 L'Obel, Matthias de.  
 Lowe, E. J.  
 Marcgrave, George.  
 Moufet, Thomas.  
 Packard, A. S.  
 Peale, T. R.  
 Pickering, Charles.  
 Poey y Aloy, Felipe.  
 Quatrefages de Bréau, J. L. A. de.  
 Quekett, J. T.  
 Rafinesque, C. S.  
 Ray, John.  
 Réaumur, R. A. de.  
 Redi, Francesco.  
 Richardson, *Sir* John.  
 Rondelet, Guillaume.  
 Thompson, Zadoc.  
 Trembley, Abraham.  
 Turner, William.  
 Wallace, A. R.  
 Wheatland, Henry.  
 White, Gilbert.  
 Williamson, W. C.  
 Willughby, Francis.

**Opticians**

*See also* Surgeons, Ophthalmic.  
 Abbe, Ernst.  
 Brewster, *Sir* David.  
 Clark, A. G.  
 Clark, Alvan.  
 Clark, G. B.  
 Fraunhofer, Joseph von.  
 Guinand, P. L.  
 Lloyd, Humphrey.  
 Ramsden, Jesse.  
 Zentmayer, Joseph.

**Ornithologists**

*See also* Naturalists.  
 Audubon, J. J.  
 Brewer, T. M.  
 Coues, Elliott.  
 Gould, John.  
 Lilford, T. L. Powys, *baron*.

**Ornithologists—continued**

Newton, Alfred.  
Tristram, H. B.  
Tweeddale, Arthur Hay,  
*marquis of.*  
Wilson, Alexander.

**Paleontologists**

Beecher, C. E.  
Bunbury, *Sir C. J. F.*  
Carter, H. J.  
Davidson, Thomas.  
Etheridge, Robert.  
Falconer, Hugh,  
Gabb, W. M.  
Gervais, Paul.  
Hatcher, J. B.  
Heer, Oswald.  
Hulke, J. W.  
Knight, W. C.  
Marsh, O. C.  
Nicholson, H. A.  
Zittel, K. A. von.

**Pharmacists**

Brande, W. T.  
Hanbury, Daniel.  
Mohr, Friedrich.  
Warrington, Robert, 1807-67.  
Warrington, Robert, 1838-1907.

**Photographers**

Chapman, D. C.  
Claudet, A. F. J.

**Physicians**

*See also Surgeons.*  
Abernethy, John.  
Acland, *Sir H. W.*  
Addison, Thomas.  
Aitken, *Sir William.*  
Anderson, G. B.  
Andral, Gabriel.  
Arnott, Neil.  
Auenbrugger, Leopold.  
Babington, B. G.  
Baillie, Matthew.  
Baird, William.  
Ballard, Edward.  
Baly, William.  
Barry, Martin.  
Barton, B. S.

**Physicians—continued**

Bastian, H. C.  
Beale, L. S.  
Beddoe, John.  
Bell, John.  
Bennett, J. H.  
Bennett, *Sir J. R.*  
Bigelow, Jacob.  
Blakiston, Peyton.  
Boerhaave, Hermann.  
Bowditch, H. I.  
Bowditch, H. P.  
Boyce, *Sir R. W.*  
Bright, Richard.  
Brinton, William.  
Bristowe, J. S.  
Broadbent, *Sir W. H.*  
Broca, Paul.  
Brown-Séguard, C. É.  
Buchanan, *Sir George.*  
Bucknill, *Sir J. C.*  
Budd, George.  
Budd, William.  
Burrows, *Sir George.*  
Cabot, Samuel.  
Caius, Joannes.  
Cardano, Girolamo.  
Chambers, W. F.  
Charcot, J. M.  
Christison, *Sir Robert.*  
Clark, *Sir Andrew.*  
Clarke, E. H.  
Cobbold, T. S.  
Cohnheim, J. F.  
Conolly, John.  
Cooper, *Sir A. P.*  
Corrigan, *Sir D. J.*  
Crichton, *Sir Alexander.*  
Cullen, William.  
Dalton, J. C.  
Darwin, Erasmus.  
Derby, George.  
Ellis, Calvin.  
Emerson, Gouverneur.  
Farre, Arthur.  
Fayrer, *Sir Joseph.*  
Finlay, C. J.  
Flint, Austin.

Physicians—*continued*

Folsom, C. F.  
Forbes, *Sir* John.  
Fowler, Richard.  
Gairdner, *Sir* W. T.  
Godding, W. W.  
Graves, R. J.  
Gregory, James.  
Gregory, John.  
Gull, *Sir* W. W.  
Guy, W. A.  
Hahnemann, C. S. F.  
Halford, *Sir* Henry.  
Hall, Marshall.  
Hamilton, D. J.  
Harley, George.  
Hartshorne, Henry.  
Harvey, William.  
Haughton, Samuel.  
Hawkins, Bisset.  
Hays, Isaac.  
Henderson, William.  
Hodges, R. M.  
Holbrook, J. E.  
Holland, *Sir* Henry.  
Hosack, David.  
Hunter, William.  
Jackson, C. T.  
Jackson, J. B. S.  
Jackson, J. H.  
Jago, James.  
Jarvis, Edward.  
Jenner, Edward.  
Jenner, *Sir* William.  
Johnson, *Sir* George.  
Kanthack, A. A.  
Kaye, John.  
Key, John.  
Kirkbride, T. S.  
Knight, F. I.  
Laënnec, R. T. H.  
Lee, William.  
Linacre, Thomas.  
Louis, P. C. H.  
Lyman, G. H.  
Mackenzie, *Sir* Morell.  
Magendie, François.  
Marcet, William.

Physicians—*continued*

Marshall, John.  
Maudsley, Henry.  
Meigs, C. D.  
Meigs, J. F.  
Monro, Alexander, 1697-1767.  
Monro, Alexander, 1733-1817.  
Murchison, Charles.  
Nichols, C. H.  
Paget, *Sir* G. E.  
Paget, *Sir* James.  
Paris, J. A.  
Parkes, E. A.  
Penrose, R. A. F.  
Pepper, William.  
Quain, *Sir* Richard.  
Randolph, N. A.  
Ray, Isaac.  
Rees, G. O.  
Reynolds, Edward.  
Richardson, *Sir* B. W.  
Ringer, Sidney.  
Roberts, *Sir* William.  
Rogers, J. B.  
Roget, P. M.  
Rolleston, George.  
Roy, C. S.  
Rush, Benjamin.  
Sanderson, *Sir* J. S. B.  
Shattuck, G. C.  
Sibson, Francis.  
Simon, *Sir* John.  
Simpson, *Sir* J. Y.  
Smith, A. H.  
Stokes, William.  
Sydenham, Thomas.  
Taylor, A. S.  
Thompson, Theophilus.  
Thorne, *Sir* R. T.  
Todd, R. B.  
Toner, J. M.  
Virchow, Rudolf.  
Ware, C. E.  
Watson, *Sir* Thomas.  
Wells, *Sir* T. S.  
Williams, C. J. B.  
Wilson, *Sir* W. J. E.  
Wood, G. B.

Physicians—*continued*

Young, Thomas.

Physicists

Ampère, A. M.  
Ångström, A. J.  
Ångström, K. J.  
Apjohn, James.  
Arago, D. F. J.  
Bache, A. D.  
Barker, G. F.  
Barré de Saint-Venant, A. J. C.  
Bartlett, W. H. C.  
Becquerel, A. H.  
Becquerel, Edmond.  
Bell, A. G.  
Biot, J. B.  
Boltzmann, Ludwig.  
Bravais, Auguste.  
Clausius, R. J. E.  
Colladon, J. D.  
Conroy, *Sir* John.  
Cooke, *Sir* W. F.  
Cornu, M. A.  
Coulomb, C. A. de.  
Crookes, *Sir* William.  
Dove, H. W.  
Everett, J. D.  
Faraday, Michael.  
Fitzgerald, G. F.  
Foucault, J. B. L.  
Fourier, J. B. J. *baron*.  
Fresnel, A. J.  
Galileo.  
Gibbs, J. W.  
Guthrie, Frederick.  
Harcourt, W. V. V.  
Helmholtz, H. L. F. von.  
Hennessy, Henry.  
Henry, Joseph.  
Herschel, *Sir* J. F. W.  
Hertz, Heinrich.  
Hoff, J. H. van't.  
Holman, S. W.  
Huygens, Christiaan.  
Jamin, J. C.  
Jedlik, Anianus.  
Joule, J. P.  
Kelland, Philip.

Physicists—*continued*

Kelvin, William Thomson, *baron*.  
Kerr, John.  
Kimball, A. S.  
Kirchhoff, G. R.  
Kohlrausch, Friedrich.  
König, K. R.  
Kundt, August.  
Kupffer, A. T. von.  
Lane, J. H.  
Le Conte, John.  
Lefavour, E. B.  
Lovering, Joseph.  
Magnus, H. G.  
Malus, É. L.  
Mascart, É. É. N.  
Maxwell, J. C.  
Mayer, A. M.  
Mayer, J. R. von.  
Mendenhall, T. C.  
Neumann, F. E.  
Ohm, G. S.  
Ørsted, H. C.  
Peltier, J. C. A.  
Peregrinus, Petrus.  
Plateau, A. F. J.  
Plücker, Julius.  
Poggendorf, J. C.  
Poincaré, J. H.  
Potier, Alfred.  
Rayleigh, J. W. Strutt, *baron*.  
Réaumur, R. A. de.  
Regnault, H. V.  
Reis, J. P.  
Riemann, G. F. B.  
Röntgen, W. C.  
Rood, O. N.  
Rowland, H. A.  
Rumford, Benjamin Thompson,  
*count*.  
Silliman, Benjamin.  
Smith, Archibald.  
Spottiswoode, William.  
Stewart, Balfour.  
Stokes, *Sir* G. G.  
Tait, P. G.  
Taylor, W. B.  
Trowbridge, John.

**Physicists—continued**

Tyndall, John.  
 Volpicelli, Paolo.  
 Watson, H. W.  
 Wheatstone, *Sir* Charles.  
 Whewell, William.  
 Whiting, Harold.  
 Wiedemann, G. H.  
 Young, Thomas.

**Physiologists**

Aselli, Gaspar.  
 Bartholinus, Thomas.  
 Bell, *Sir* Charles.  
 Bernard, Claude.  
 Bert, Paul.  
 Borelli, G. A.  
 Czermak, J. N.  
 Davy, John.  
 Dean, John.  
 Donders, F. C.  
 Du Bois-Reymond, E. H.  
 Flourens, M. J. P.  
 Galvani, Luigi.  
 Gamgee, Arthur.  
 Glisson, Francis.  
 Hales, Stephen.  
 Haller, Albrecht von.  
 Helmholtz, H. L. F. von.  
 Helmont, J. B.  
 Henle, F. G. J.  
 Hooke, Robert.  
 Kölliker, R. A. von.  
 Leeuwenhoek, Antony van.  
 Ludwig, K. F. W.  
 Malpighi, Marcello.  
 Mayow, John.  
 Moleschott, Jacob.  
 Mosso, Angelo.  
 Müller, J. P.  
 Pflüger, E. F. W.  
 Reid, John.  
 Roy, C. S.  
 Rutherford, William.  
 Servetus, Michael.  
 Sharpey, William.  
 Spallanzani, Lazzaro.  
 Swammerdam, Jan.  
 Sylvius, Franciscus.

**Physiologists—continued**

Vesalius, Andreas.  
 Vulpian, E. F. A.  
 Waller, A. V.  
 Weber, E. H.

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 Firth, F. R.  
 Riggenbach, Nikolaus  
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 Stephenson, Robert.  
 Williams, J. L.  
 Wilson, W. H.

**Scientific writers and teachers**

Bate, C. S.  
 Blakiston, Peyton.  
 Hunt, Robert.  
 Penrose, R. A. F.  
 Rogers, W. B.

**Scientists**

Albertus Magnus.  
 Argyll, G. D. Campbell, *duke of*.  
 Barnard, F. A. P.  
 Franklin, Benjamin.  
 Gilman, D. C.  
 Huxley, T. H.  
 John XXI, *pope*.  
 Kircher, Athanasius.  
 Mitchell, S. L.  
 Newton, *Sir* Isaac.  
 Oldenburg, Henry.  
 Pepper, William.  
 Rogers, W. B.  
 Spencer, Herbert.  
 Weeks, J. D.  
 Youmans, E. L.

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Burgess, Edward.  
 Cramp, C. H.  
 Eckford, Henry.  
 Elgar, Francis.

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 Pett, Phineas.  
 Reed, *Sir* E. J.  
 Roach, John.  
 Russell, J. S.  
 Smith, *Sir* F. P.

**Stenographers**

Pitman, *Sir* Isaac.

**Surgeons**

Agnew, D. H.  
 Beverley, C. J.  
 Bigelow, H. J.  
 Billings, J. S.  
 Bishop, John.  
 Brodie, *Sir* B. C.  
 Brooke, Charles.  
 Clark, F. L.  
 Curling, T. B.  
 Erichsen, *Sir* J. E.  
 Fabricius, Hieronymus.  
 Ferguson, *Sir* William.  
 Green, J. H.  
 Gross, S. D.  
 Guido de Cauliaco.  
 Guthrie, G. J.  
 Hulke, J. W.  
 Humphry, *Sir* G. M.  
 Hunter, John.  
 Kidder, J. H.  
 Lawrence, *Sir* William.  
 Lister, *Sir* Joseph.  
 Liston, Robert.  
 Lizars, John.  
 Macgrigor, *Sir* James.  
 McWilliam, J. O.  
 Paré, Ambroise.  
 Reed, Walter.  
 Richardson, *Sir* John.  
 Sims, J. M.  
 Stanley, Edward.  
 Syme, James.  
 Thompson, *Sir* Henry.  
 Travers, Benjamin.  
 Woodward, J. J.

**Surgeons, Aural**

Hinton, James.  
 Toynbee, Joseph.

**Surgeons, Dental**

Morton, W. T. G.  
 Salter, S. J. A.  
 Tomes, *Sir* John.

**Surgeons, Ophthalmic**

Bowman, *Sir* William.  
 Carter, R. B.  
 Donders, F. C.  
 Hay, Gustavus.

**Surveyors**

Avery, R. S.  
 Baeyer, J. J.  
 Baker, Marcus.  
 Boutelle, C. O.  
 Denham, H. M.  
 Eimbeck, William.  
 Lindenkohl, Adolph.  
 Nicholson, W. L.  
 Schott, C. H.  
 Walker, J. T.

**Zoölogists**

. *See also* Biologists.  
 Allman, G. J.  
 Baird, William.  
 Beneden, Edouard van.  
 Bessels, Emil.  
 Blanford, W. T.  
 Brehm, Alfred.  
 Bridge, T. W.  
 Broderip, W. J.  
 Brooks, W. K.  
 Carpenter, P. H.  
 Clark, H. J.  
 Dobson, G. E.  
 Dohrn, Anton.  
 Ducrotay de Blainville, H. M. de.  
 Flower, *Sir* W. H.  
 Geoffroy Saint-Hilaire, Étienne.  
 Geoffroy Saint-Hilaire, Isidore.  
 Gervais, Paul.  
 Gosse, P. H.  
 Hamlin, C. E.  
 Howes, T. G. B.  
 Hyatt, Alpheus.  
 Lacaze-Duthiers, Henri de.  
 Leuckart, C. G. F. R.  
 Lockwood, Samuel.  
 Lyman, Theodore.



**Zoölogists—continued**

Marshall, A. M.  
Milne-Edwards, Henri.  
Morse, E. S.  
Nicholson, H. A.  
Pourtalès, L. F. de.  
Putnam, F. W.  
Rathke, Heinrich.  
Salvin, Osbert.  
Sars, Michael.  
Say, Thomas.

**Zoölogists—continued**

Schmidt, E. O.  
Seeley, H. G.  
Semper, C. G.  
Siebold, C. T. E. von.  
Sladen, W. P.  
Thomson, Sir C. W.  
Tiedemann, Friedrich.  
Vogt, Karl.  
Weldon, W. F. R.

**Erratum**

Page 129. *For* Riggeenbach, *read* Riggenbach.



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- Catalogue of Books, Annotated and Arranged, and Provided by the  
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