# Traveling High-School Science Libraries

Hilary J. Deason

The Traveling High School Science Library Program, now in its second year, is supported by a grant from the National Science Foundation and is administered by the AAAS. The program reflects the great interest of both agencies in assuring scientific manpower for the future and recognizes that most careers in science actually begin during high-school education. The majority of the high-school students in the United States live in localities where neither the school library nor the public library, if there are such libraries, afford adequate opportunity for recreational and collateral reading in the sciences and mathematics.

The general purposes of the program are to stimulate an interest in reading science and mathematics books, to broaden the science background of high-school students, and to assist students with scientific interests in choosing careers in the sciences. In addition, although it is not a primary objective, the program acquaints teachers and librarians with books on science and mathematics that are suitable for general reading by high-school students and that would be appropriate acquisitions for the school or community library.

During 1955–56 the traveling library consisted of 150 books that were circulated to 66 high schools in various parts of the United States. The books and schools were reported in *The Scientific Monthly* [**82**, 51 (1956)] and in *Science* [**122**, 1173 (1955)]. Circulation records of the books maintained at each school were analyzed statistically. Questionnaires were completed by the 11th- and 12th-grade students at the program schools which gave their reactions to the program and their appraisal of the books in the library.

In 1956–57 the traveling library consists of 200 books: 112 of the 150 included in the 1955–56 library, and 88 new selections. The selections were based on the suggestions of more than 200 individuals made in the summers of 1955 and 1956, on the 1955–56 circulation records and summaries of student questionnaires, and on the suggestions and appraisals of the original list which were made by representatives of the following organizations.

AAAS, AAAS Cooperative Committee on the Teaching of Science and Mathematics, American Association of Physics Teachers, American Association of School Librarians, American Chemical Society, American Dental Association, American Institute of Biological Sciences, American Library Association, American Medical Association, American Meteorological Society, American Pharmaceutical Association, American Psychological Association, American Society of Agronomy, American Society of Limnology and Oceanography, Association of Geology Teachers, District of Columbia Public Library, Mathematical Association of America, National Association of Biology Teachers, National Research Council, National Science Foundation, National Science Teachers Association, National Society of Professional Engineers, New York Public Library, Society of American Foresters, Society of Systematic Zoology, Special Libraries Association, U.S. Office of Education, and the Wildlife Society.

The number of excellent books recommended far exceeded the maximum of 200 that could be included in the library, and many decisions had to be made by the director of the program and his associates. A few recently published books that had not yet been brought to the attention of the advisory organizations and individuals were included. These will be evaluated by the program during the year. All the selected books have been reviewed by the director, and many were reviewed and appraised during the past summer by two young men, one a college freshman and the other a senior in high school.

Biography and autobiography, history of science and mathematics, and applied science are well represented in the 1956–57 library. An attempt has been made to provide a very broad range of subject matter so that a student may acquaint himself with the major branches of science and discern the practical application of the sciences and mathematics in research, in the professions, and in industry. As a rule, textbooks were not selected except when no trade books were available that covered the same subject matter. For obvious reasons, only books currently in print and available for purchase have been included.

The AAAS will evaluate the effectiveness of the Traveling Science Library Program and assess the interest of high-school students in the individual books in the library. This study will be based on the actual book circulation records at each school and on questionnaires to be completed by students at the program schools and at selected matching control schools that are not receiving the library.

A list of the 200 books in the present traveling library follows. Those that also were in the 1955–56 list of 150 are marked with an asterisk.

### Books in the Libraries

Allen, D. L. *Our Wildlife Legacy.* Funk & Wagnalls, 1954.

*Alter, D., and C. H. Cleminshaw. *Pictorial Astronomy.* Crowell, 1952.

*Andrews, R. C. *Beyond Adventure: The Lives of Three Explorers.* Duell, Sloan and Pearce, 1954.

*Andrews, R. C. *This Amazing Planet.* Putnam's, 1940.

Archer, S. G. *Soil Conservation.* Univ. of Oklahoma, 1956.

Asimov, I. *Chemicals of Life.* Abelard-Schuman, 1954.

Asimov, I. *Inside the Atom.* Abelard-Schuman, 1956.

*Baitsell, G. A. (Ed.) *Science in Progress.* Yale Univ. *1st ser., 1939; 2nd ser., 1940; 3rd ser., 1942; *4th ser., 1945; *5th ser., 1947; *6th ser., 1949; *7th ser., 1951; *8th ser., 1953.

*Bakst, A. *Mathematics: Its Magic and Mastery.* Van Nostrand, 1952.

*Ball, M. W. *This Fascinating Oil Business.* Bobbs-Merrill, 1940.

*Bates, M. *The Prevalence of People.* Scribner's, 1955.

*Beebe, W. *Half Mile Down.* Duell, Sloan and Pearce, 1951.

Bell, E. T. *Men of Mathematics.* Simon and Schuster, 1937.

*Benedict, R. *The Chrysanthemum and the Sword.* Houghton Mifflin, 1946.

Berkeley, E. C. *Giant Brains or Machines That Think.* Wiley, 1949.

*Berrill, N. J. *Sex and the Nature of Things.* Dodd, Mead, 1953.

Bonestell, C., and W. Ley. *The Conquest of Space.* Viking, 1956.

Bonner, J. T. *Cells and Societies.* Princeton Univ., 1955.

*Borek, E. *Man, the Chemical Machine.* Columbia Univ., 1952.

Boucher, P. E. *Fundamentals of Photography.* Van Nostrand, 1955.

*Bremner, M. D. K. *The Story of*

Dr. Deason is director of the AAAS Traveling High School Science Library Program.

Future scientists assisted in the final selection of the traveling library books.


*Dentistry*. Dental Items of Interest, 1954.

*Bronowski, J. *The Common Sense of Science*. Harvard Univ. 1955.

*Buchsbaum, R. M. *Animals Without Backbones*. Univ. of Chicago, 1948.

*Burnet, M. *Natural History of Infectious Disease*. Cambridge Univ., 1953.

Campbell, M., and H. Hatton. *Herbert H. Dow: Pioneer in Creative Chemistry*. Appleton-Century-Crofts, 1951.

Carhart, A. H. *Timber in Your Life*. Lippincott, 1955.

*Carlson, A. J., and V. Johnson. *The Machinery of the Body*. Univ. of Chicago, 1953.

Carson, R. L. *The Edge of the Sea*. Houghton Mifflin, 1955.

*Carson, R. *The Sea Around Us*. Oxford Univ., 1951.

*Ceram, C. W. *Gods, Graves, and Scholars: The Story of Archaeology*. Knopf, 1954.

*Clapesattle, H. *The Doctors Mayo*. Univ. of Minnesota, 1954.

*Cohen, I. B. *Science, Servant of Man*. Little, Brown, 1948.

Coleman, J. A. *Relativity for the Layman*. William Frederick, 1954.

*Cooley, D. G. *The Science Book of Wonder Drugs*. Franklin Watts, 1954.

*Coombs, C. *Skyrocketing into the Unknown*. Morrow, 1954.

Cottrell, L. *The Mountains of Pharaoh*. Rinehart, 1956.

Coulter, M. C. *The Story of the Plant Kingdom*. Univ. of Chicago, 1935.

*Courant, R., and H. Robbins. *What is Mathematics?* Oxford Univ., 1941.

Cousteau, J. Y. *The Silent World*. Harper, 1953.

*Croneis, C., and W. C. Krumbein. *Down to Earth: An Introduction to Geology*. Univ. of Chicago, 1936.

*Curie, E. *Madame Curie*. Doubleday, 1953.

*Dantzig, T. *Number: The Language of Science*. Macmillan, 1954.

*Dean, G. *Report on the Atom*. Knopf, 1954.

de Kruif, P. *Men Against Death*. Harcourt, Brace, 1932.

*de Kruif, P. *Microbe Hunters*. Harcourt, Brace, 1932.

Diamond, F. *The Story of Glass*. Harcourt, Brace, 1953.

*Diebold, J. *Automation: The Advent of the Automatic Factory*. Van Nostrand, 1952.

Diole, P. *4000 Years Under the Sea*. Messner, 1954.

Dobzhansky, T. *Evolution, Genetics, and Man*. Wiley, 1955.

*Douglas, J. S. *The Story of the Oceans*. Dodd, Mead, 1952.

*Dubos, R. J. *Louis Pasteur: Free Lance of Science*. Little, Brown, 1950.

*Dubos, R. and J. Dubos. *The White Plague: Tuberculosis, Man and Society*. Little, Brown, 1952.

Durrell, G. M. *The Overloaded Ark*. Viking, 1953.

*Eaton, J. R. *Beginning Electricity*. Macmillan, 1952.

*Farber, E. *The Evolution of Chemistry*. Ronald, 1952.

Farber, E. *Nobel Prize Winners in Chemistry*. Schuman, 1953.

*Faxon, N. W. (Ed.) *The Hospital in Contemporary Life*. Harvard Univ., 1949.

*Fenton, C. L. and M. A. Fenton. *Giants of Geology*. Doubleday and Co., 1952.

Fenton, C. L. and M. A. Fenton. *The Rock Book*. Doubleday, 1940.

Fenton, C. L. *Life Long Ago: The Story of Fossils*. John Day, 1937.

Fermi, L. *Atoms in the Family: My Life with Enrico Fermi*. Univ. of Chicago, 1954.

*Fox, R. *Great Men of Medicine*. Random House, 1947.

*Fox, R. *Milestones of Medicine*. Random House, 1950.

*Friend, J. N. *Man and the Chemical Elements*. Scribner's, 1953.

*Friend, J. N. *Numbers: Fun and Facts*. Scribner's, 1954.

*Gabrielson, I. N. *Wildlife Conservation*. Macmillan, 1952.

*Gamow, G. *The Moon*. Schuman, 1953.

*Gamow, G. *Mr Tompkins Explores the Atom*. Cambridge Univ., 1955.

*Gamow, G. *Mr Tompkins in Wonderland*. Cambridge Univ., 1953.

*Gamow, G. *One, Two, Three . . . Infinity*. Viking, 1954.

Garrett, H. E. *Great Experiments in Psychology*. Appleton-Century-Crofts, 1951.

*Glasstone, S. *Sourcebook on Atomic Energy*. Van Nostrand, 1950.

Glynn, J. H. *The Story of Blood*. Wyn, 1948.

Gollomb, J. *Albert Schweitzer: Genius in the Jungle*. Vanguard, 1949.

*Grabbe, P. *We Call It Human Nature*. Harper, 1939.

Grant, M. P. *Microbiology and Human Progress*. Rinehart, 1953.

*Gray, J. *How Animals Move*. Cambridge Univ., 1953.

*Grinter, L. E., H. N. Holmes, *et al. Engineering Review*. Macmillan, 1947.

*Haggard, H. W. *Devils, Drugs, and Doctors*. Harper, 1929.

*Hamilton, W. J., Jr. *American Mammals: Their Lives, Habits and Economic Relations*. McGraw-Hill, 1939.

Haynes, W. *Cellulose, The Chemical That Grows*. Doubleday, 1953.

Heathcote, Niels H. de V. *Nobel Prize Winners in Physics*. Schuman, 1953.

Hecht, Selig. *Explaining the Atom*. Viking, 1955.

*Hegner, R. *Parade of the Animal Kingdom*. Macmillan, 1955.

Herrmann, P. *Conquest by Man*. Harper, 1954.

*Heyerdahl, T. *Kon-Tiki: Across the Pacific by Raft*. Rand McNally, 1950.

Hochbaum, H. A. *Travels and Traditions of Waterfowl*. Univ. of Minnesota, 1955.

*Hogben, L. *Mathematics for the Million*. Norton, 1951.

*Holland, R., Jr. *The Physical Nature of Flight*. Norton, 1951.

*Hooton, E. A. *Up from the Ape*. Macmillan, 1946.

Howells, W. *Back of History: The Story of Our Own Origins*. Doubleday, 1954.

Hylander, C. J. *The World of Plant Life*. Macmillan, 1956.

*Jaffe, B. *Crucibles: The Story of Chemistry*. Simon and Schuster, 1951.

*Jaffe, B. *Men of Science in America*. Simon and Schuster, 1946.

*Kaempffert, W. *Explorations in Science*. Viking, 1953.

Kaplan, J., and W. Von Braun, *et al. Across the Space Frontier,* Viking Press, 1953.

Kasner, E., and J. Newman. *Mathematics and the Imagination.* Simon and Schuster, 1940.

*Kellogg, C. E. *The Soils That Support Us.* Macmillan, 1951.

*Kendall, J. *Great Discoveries by Young Chemists.* Crowell, 1953.

Killeffer, D. H. *Two Ears of Corn, Two Blades of Grass.* Van Nostrand, 1955.

*King, T. *Water: Miracle of Nature.* Macmillan, 1955.

Kinkead, E. *Spider, Egg, and Microcosm.* Knopf, 1955.

*Kraus, E. H., and C. B. Slawson. *Gems and Gem Materials.* McGraw-Hill, 1947.

Kuenen, P. H. *Realms of Water.* Wiley, 1955.

*Kugelmass, J. A. *J. Robert Oppenheimer and the Atomic Story.* Messner, 1953.

*Laird, C., and R. Laird. *Weathercasting.* Prentice-Hall, 1955.

*Lavine, S. A. *Steinmetz: Maker of Lightning.* Dodd, Mead, 1955.

*Levinger, E. E. *Albert Einstein.* Messner, 1949.

*Levinger, E. E. *Galileo: First Observer of Marvelous Things.* Messner, 1954.

Ley, W. *Engineers' Dreams.* Viking, 1955.

Ley, W., and W. Von Braun. *The Exploration of Mars.* Viking, 1956.

*Lieber, L. R. *The Education of T. C. Mitts.* Norton, 1944.

Lieber, L. R. *Einstein Theory of Relativity.* Rinehart, 1945.

Lieber, L. R. *Infinity.* Rinehart, 1953.

*Logsdon, M. I. *A Mathematician Explains.* Univ. of Chicago, 1947.

Longstreth, T. M. *Understanding the Weather.* Macmillan, 1953.

Lorenz, K. Z. *King Solomon's Ring: New Light on Animal Ways.* Crowell, 1952.

*MacCurdy, E. (Ed. and Tr.) *The Notebooks of Leonardo Da Vinci.* Braziller, 1955.

*MacGowan, K. *Early Man in the New World.* Macmillan, 1953.

Meyer, J. S. *Fun with Mathematics.* World, 1952.

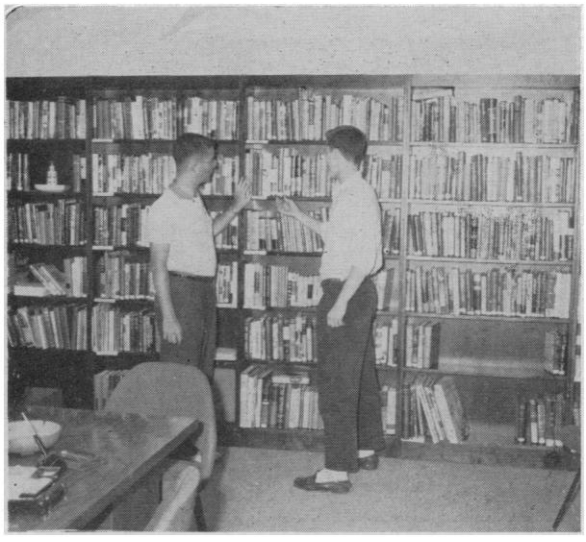
Mohr, C. E., and H. N. Sloane (Eds.) *Celebrated American Caves.* Rutgers Univ., 1955.

Moore, P. *The Story of Man and the Stars.* Norton, 1955.

*Morris, L., and K. Smith. *Ceiling Unlimited: The Story of American Aviation from Kitty Hawk to Supersonics.* Macmillan, 1953.

*Moulton, F. R., and J. J. Schifferes. *The Autobiography of Science.* Doubleday, 1953.

Book publishers donated a reference collection of more than 1000 titles from which selections were made.



*Munn, N. L. *The Evolution and Growth of Human Behavior.* Houghton Mifflin, 1955.

Newman, J. R. *What is Science?* Simon and Schuster, 1955.

Newman, J. R. *What Is Science?* Wyn, 1948.

Ogilvy, C. S. *Through the Mathescope.* Oxford Univ., 1956.

*Payne-Gaposchkin, C. *Stars in the Making.* Harvard Univ., 1952.

*Peattie, D. C. *Flowering Earth.* Putnam's, 1939.

*Peterson, R. T., and J. Fisher. *Wild America.* Houghton Mifflin, 1955.

Pfeiffer, J. *The Changing Universe.* Random House, 1956.

*Pierce, J. R. *Electrons, Waves and Messages.* Hanover House, 1956.

Pinchot, G. *Breaking New Ground.* Harcourt, Brace, 1947.

Platt, R. *This Green World.* Dodd, Mead, 1942.

Pope, C. H. *The Reptile World: A Natural History of Snakes, Lizards, Turtles and Crocodilians.* Knopf, 1955.

Rapport, S., and H. W. Wright (Eds.) *Great Adventures in Medicine.* Dial, 1952.

*Reid, C. *From Zero to Infinity.* Crowell, 1955.

Reinfeld, F. *Uranium and Other Miracle Metals.* Sterling, 1955.

Rodahl, K. *North: The Nature and Drama of the Polar World.* Harper, 1953.

*Roe, A. *The Making of a Scientist.* Dodd, Mead, 1953.

*Rogers, B. A. *The Nature of Metals.* Iowa State Coll., 1951.

*Roueche, B. *Eleven Blue Men, and Other Narratives of Medical Detection.* Little, Brown, 1954.

Russell, F. S., and C. M. Yonge. *The Seas: Our Knowledge of Life in the Sea and How It Is Gained.* Frederick Warne, 1936.

Sanderson, I. T. *Follow the Whale.* Little, Brown, 1956.

*Scientific American,* (Eds.) *Scientific American Reader.* Simon and Schuster, 1953.

Sears, P. B. *Deserts on the March.* Univ. of Oklahoma, 1947.

Semat, H. *Physics in the Modern World.* Rinehart, 1949.

*Seton, E. T. *Trail of an Artist Naturalist.* Scribner's, 1948.

*Shapley, H. S., Rapport, and H. Wright. *A Treasury of Science.* Harper, 1954.

*Silverman, M. *Magic in a Bottle.* Macmillan, 1953.

*Simpson, G. G. *Life of the Past: An Introduction to Paleontology.* Yale Univ., 1953.

*Singer, C. *A History of Biology.* Schuman, 1951.

Skilling, H. H. *Exploring Electricity: Man's Unfinished Quest.* Ronald, 1948.

*Sloop, M. T. M. *Miracle in the Hills.* McGraw-Hill, 1953.

*Smart, W. M. *The Origin of the Earth.* Cambridge Univ., 1953.

*Smith, F. G. W., and H. Chapin. *The Sun, the Sea and Tomorrow.* Scribner's, 1954.

Smith, H. S. *The World's Great* Bridges. Harper, 1953.

*Sootin, H. *Isaac Newton.* Messner, 1955.

*Sootin, H. *Michael Faraday: From Errand Boy to Master Physicist.* Messner, 1954.

Spectorsky, A. C. (Ed.). *The Book of the Mountains.* Appleton-Century-Crofts, 1955.

Spectorsky, A. C. (Ed.) *The Book of the Sea.* Appleton-Century-Crofts, 1954.

*Spencer, S. M. *Wonders of Modern Medicine.* McGraw-Hill, 1953.

*Sproul, E. E. *The Science Book of the Human Body.* Franklin Watts, 1955.

Stevenson, L. G. *Nobel Prize Winners*

The traveling library is sent to program schools in display cases of 25 books each.

*in Medicine and Physiology.* Schuman, 1953.

*Storck, J., and W. D. Teague. *Flour for Man's Bread: A History of Milling.* Univ. of Minnesota, 1952.

Storer, J. H. *The Web of Life: A First Book of Ecology.* Devin-Adair, 1956.

*Sullivan, J. W. W. *The Story of Metals.* Iowa State Coll., 1951.

Swezey, K. M. *Science Magic.* McGraw-Hill, 1952.

Tannehill, I. R. *The Hurricane Hunters.* Dodd, Mead, 1956.

Taylor, F. S. *An Illustrated History of Science.* Prager, 1955.

*Taylor, F. S. *A Short History of Science and Scientific Thought.* Norton, 1949.

*Teale, E. W. *Grassroot Jungles: A Book of Insects.* Dodd, Mead, 1950.

*Teale, E. W. (Ed.) *The Insect World of J. Henri Fabre.* Dodd, Mead, 1950.

Thomson, E. *Harvey Cushing: Surgeon, Author, Artist.* Schuman, 1950.

Townsend, G., and J. R. Dalzell. *How to Plan a House.* American Technical Society, 1952.

Untermeyer, L. *Makers of the Modern World.* Simon and Schuster, 1955.

Upton, M. *Electronics for Everyone: The Story of Electricity in Action.* Devin-Adair, 1955.

Vaeth, J. G. *200 Miles Up: The Conquest of the Upper Air.* Ronald, 1955.

Verne, J. *Twenty Thousand Leagues Under the Sea.* World, 1946.

*von Frisch, K. *The Dancing Bees.* Harcourt, Brace, 1955.

*Wallace, G. J. *An Introduction to Ornithology.* Macmillan, 1955.

*White, A. T. *Lost Worlds: The Romance of Archaeology.* Random House, 1941.

Wiener, N. *I Am a Mathematician.* Doubleday, 1956.

*Williams, B., and S. Epstein. *William Crawford Gorgas: Tropic Fever Fighter.* Messner, 1953.

Woodbury, D. O. *The Glass Giant of Palomar.* Dodd, Mead, 1954.

*Woodham-Smith, C. *Lonely Crusader: The Life of Florence Nightingale.* McGraw-Hill, 1951.

Yost, E. *American Women of Science.* Lippincott, 1955.

Young, A. *Scalpel: Men Who Made Surgery.* Random House, 1956.

Zim, H. S. *Plants.* Harcourt, Brace, 1947.

*Zinsser, H. *Rats, Lice and History. A Study in Biography.* Little, Brown, 1955.

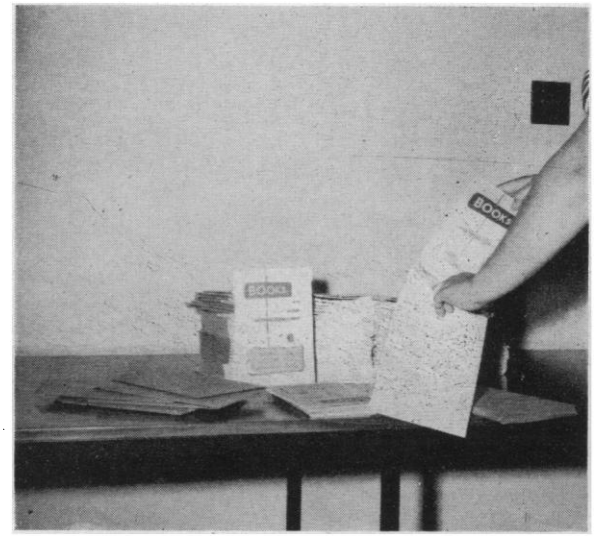
## Program Schools

During 1956–57 a total of 104 schools are participating in the Traveling Science Library Program. Twenty-six sets of the library are being circulated to the program schools and two sets are being used for exhibition at scientific meetings and at meetings of teachers and librarians. Each school receives 50 books at a time. The books are used for two months. During the summer of 1957 the traveling libraries will be used at the institutes for science and mathematics teachers sponsored by the National Science Foundation.

The greatest apparent need for the traveling libraries is in small and medium-sized high schools in nonmetropolitan localities. Recommendations were solicited from state departments of education and from well-informed faculty members of universities and colleges. Each recommended school was informed of the program and invited to send information on its enrollment, curriculum, faculty, and library facilities, and to indicate whether it was interested in becoming a part of the program. The 104 participants were selected from a much larger number of responses to afford a wide geographic distribution and to represent a diversity of local socioeconomic conditions. Most of the schools are in nonmetropolitan areas and have an enrollment of between 200 and 600 students in the ninth to 12th grades, inclusive. Both public and private schools are represented. Two large senior high schools in the Washington metropolitan area and an exceptional junior high school have been included for comparison. The 104 program schools are as follows.

*Alabama*: Baldwin County High School; J. U. Blacksher High School, Uriah; Choctaw County High School; Decatur High School; Montevallo High School; Randolph County High School; Semmes High School; West Blockton High School.

*Arkansas*: Bentonville High School; Harrison High School; Jacksonville High School; Ozark High School.




The AAAS has published an annotated catalog of the traveling library. It is available to teachers and school librarians on request.

*California*: Calexico Union High School; Needles Union High School; Pomona Catholic High School; Santa Ynez Valley High School.

*Colorado*: Central High School, Grand Junction; Delta High School; Sheridan Union High School, Englewood; Holy Trinity High School, Trinidad.

*Connecticut*: Darien High School; Griswold High School, Jewett City; Housatonic Valley Regional High School, Falls Village; Watertown High School.

*District of Columbia*: Alice Deal Junior High School; Hebrew Academy of Washington; Woodrow Wilson High School.

*Indiana*: Chesterton High School; Lebanon Junior-Senior High School; Western High School, Russiaville; Tipton High School.

*Iowa*: Britt High School; Clarinda High School; Estherville High School; Sumner High School.

*Louisiana*: DeRidder High School; Haynesville High School; Minden High School; Natchitoches High School.

*Maryland*: Howard County High School; Northern Garrett County High School; Northwestern Senior High School, Hyattsville; Northwood Junior-Senior High School, Silver Spring; Walter Johnson Senior High School, Rockville; Wheaton Senior High School; Wicomico Senior High School, Salisbury; Wiley H. Bates High School, Annapolis.

*Michigan*: Holland Christian High School; Marlette Community High School; Newaygo High School; Okemos High School; Rodney Wilson High School, St. Johns; Union High School, Greenville; Warren High School; Washington Gardner High School, Albion.

*Minnesota*: Cloquet High School; Detroit Lakes High School; Fergus Falls High School; Grand Rapids High School; Lourdes Central Catholic High School, Rochester; Mapleton High School; Northfield High School; Worthington Senior High School.

*Montana*: Anaconda Public High School; Beaverhead County High School, Dillon; Fergus County High School, Lewiston; Libby High School.

*New York*: Canandaigua Academy; Glens Falls High School; Herkimer Central High School; Hornell Senior High School; Interlaken Central School; Northside High School, Corning; Oneonta High School; Plattsburgh High School.

*North Carolina*: Bunker Hill High School, Claremont; Charity High School, Rosehill; Davis County High School; Highland High School, Gastonia; Jones Central High School, Trenton; North Davidson High School, Lexington; Price High School, Salisbury; Shepard High School, Zebulon.

*North Dakota*: Hettinger High School; Valley City High School; Wahpeton High School; Williston High School.

*Oklahoma*: Clinton High School; McAlester High School; Norman High School; Shawnee High School.

*Texas*: Killeen High School; Rio Grande City High School; Seguin High School; Weslaco High School.

*Virginia*: Bluestone High School, Chase City; Halifax County High School; Martinsville High School; Robert E. Lee High School, Staunton; St. Stephen's School, Alexandria.

*West Virginia*: Dunbar High School; Sherman High School, Seth; Sophia High School; Sutton High School.

### A Basic List of Science Books for High Schools

The AAAS has published a descriptive catalog of the books in the traveling libraries which is available to teachers and high-school librarians on request. This book list, although limited in scope, proved to be in demand last year as a guide for purchasing books for school and community libraries.

The AAAS, with the cooperation of the National Science Foundation, plans to publish late in 1957 a basic list of science and mathematics books for high-school libraries and other libraries used by young people. The number of titles in the proposed book list will not be limited, and the list will include the kinds of books in the traveling library, as well as standard reference books, natural history keys and field guides, and a selected group of basic textbooks. The list will be based on the many suggestions for the traveling library made by individuals and representatives of organizations and will be compiled by a small committee of specialists in the teaching of science and mathematics, library supervisors, and others. Such a list will meet a need frequently mentioned by school officers, teachers, and librarians.

The AAAS solicits the comments and suggestions of students, teachers, librarians, scientists, and others concerning the traveling library program, and will be glad to receive comments concerning books now in the traveling library or books not in the traveling library that are suggested for the basic book list. In suggesting books kindly list the author, title, and publisher to facilitate the identification and examination of your suggestions and recommendations.

# H. Devaux, Plant Physiologist, Pioneer of Surface Physics

Henri Edgard Devaux, professor emeritus of plant physiology at the University of Bordeaux, died on 14 March 1956, at the age of 93 years. Although he was physically infirm for many years, this remarkable man was active scientifically until his death. His last publication, "The mystery of the second fertilization of angiosperms. . . ." appeared in the *Comptes rendues* of the Academy of Sciences, session of 4 January 1956; his first paper, "On the variation of growth and development of plants at different hours of the day" appeared in 1882; thus his productive scientific life extended over a period of 74 years.

Henri Devaux was born on 6 July 1862, in the village of Etaules (Charente-Maritime) to a Protestant family of farmers and seafarers. In 1884, he was awarded a scholarship to the University of Bordeaux, where he studied pharmacy and natural science. In 1887, he came to the Sorbonne where he remained for 4 years, receiving his doctorate in 1889, his thesis having to do with the mechanism of gaseous exchange of plants. In 1891, after a short stay at the University of Dijon, he returned to the University of Bordeaux, where in 1906 the first chair of plant physiology in provincial France was created for him, a post which he occupied until his retirement in 1932 at the age of 70. After his retirement, he retained a small laboratory in the Faculty of Sciences at Bordeaux in which he worked actively until