

raise \$3,500,000 for its construction and endowment is now in progress. Completion of the hospital will inaugurate the medical center development, which will be carried out as rapidly as the necessary funds become available.

The architect's plans for the center were drawn by York and Sawyer in consultation with Dr. S. S. Goldwater, a specialist in hospital construction, and a committee of trustees and faculty headed by Dr. Claude A. Burrett, dean and director of the college and hospital.

The plans have been evolved in conjunction with a new five-point educational and research program which consists of increased emphasis upon the training of general practitioners, creation of an educational extension service for active physicians, enlargement of post-graduate facilities, and training of nurses for work in private homes as well as in institutions.

Regarding the research part of the program, Dr. Burrett recently said: "Progress in the control of infections and diseases of childhood has been remarkable and invaluable, but there is need for a concentrated, scientific attack on those diseases of the heart, kidneys and arteries, common among persons in the prime of life. Research at this institution in the future will be directed primarily toward this end."

The total amount of \$19,913,000 necessary will comprise \$8,975,000 for construction and equipment, and \$10,938,000 for endowment.

### PROFESSIONAL SALARIES

THE following resolution was passed at the general business session of the tenth annual meeting of the Southwestern Division of the American Association for the Advancement of Science, held at Albuquerque, New Mexico, on April 24:

WHEREAS, Such investigations as those of Dr. Peixotto, at the University of California, and of Dr. Henderson and his associates, at Yale University, afford convincing demonstration of the close relation between professional salaries, on the one hand, and standards of research and teaching, on the other; therefore, be it

*Resolved*, That the Southwestern Division of the American Association for the Advancement of Science in convention assembled in Albuquerque, New Mexico, April 24, 1929, does hereby urge the increasing attention of Congress, the states and the public to the problem of effective provision for more adequate salaries and facilities for scientific men, whether in the service of private foundation, state or federal government, to the end that the quality of research work may be improved and human welfare more effectively promoted; and, be it further

*Resolved*, That the Southwestern Division approve the taking of similar statistics in one or more of the state universities of our district to aid the sub-committee of the Committee of One Hundred in carrying forward their investigation; and, be it further

*Resolved*, That copies of this resolution be sent to SCIENCE, Dr. Rodney H. True, secretary of Committee of One Hundred on Scientific Research, American Association for the Advancement of Science, the permanent secretary of the American Association for the Advancement of Science, the congressional delegations of Colorado, New Mexico, Arizona and Texas, to Dr. J. Peixotto, University of California, Dr. Yandell Henderson, Yale University, and to the press.

### SCIENTIFIC NOTES AND NEWS

THE honorary doctorate of laws was on May 8 conferred by the University of Paris on Professor Albert Einstein. This degree is said to be the first to be awarded since the war to a citizen of Germany.

THE honorary doctorate of science was conferred on Dr. Simon Flexner, director of the laboratories of the Rockefeller Institute for Medical Research, on the occasion of the dedication on May 11 of the new laboratory of anatomy and physiological chemistry of the University of Pennsylvania. Dr. Flexner, who was professor of pathology at the University of Pennsylvania from 1899 to 1903, made the principal address.

PUPILS and other friends of Professor William J. Gies have established at Columbia University the William J. Gies Fellowship in Biological Chemistry, the income from which for 1929-30 will be \$1,500. Incumbents of the fellowship will be free to devote their time exclusively to biochemical research of their own selection. Inquiries regarding this fellowship, and applications for appointment to it in 1929-30, should be addressed, before June 30, to the department of biological chemistry.

A SUM of \$10,000 has been given to the School of Tropical Medicine in San Juan, Porto Rico, for the creation of a fellowship fund to be known as the Bailey K. Ashford Fellowship Fund. It is the purpose of the donor that this fund shall be used to support research on problems pertaining to tropical medicine in Porto Rico. In case the funds are not used as a fellowship it is the wish of the donor that they be used as a prize for meritorious work in the field of tropical medicine. The trustees of the University of Porto Rico and representatives from Columbia University have appointed the following committee to administer the fellowship: Dr. Jas. W. Jobling, Dr. Frederick P. Gay, Dr. Bailey K. Ashford, Dr. José Belaval and Dr. Earl B. McKinley.

AT the meeting of the National Research Council, held in Washington last week, Dr. Dayton C. Miller was reelected chairman of the division of physical research. This is the third year that he has held this office.

DR. LEWELLYS F. BARKER, professor emeritus of medicine of the Johns Hopkins University, was elected chairman of the Medical Council of the United States Veterans Bureau to succeed Dr. Ray Lyman Wilbur, Secretary of the Interior.

DR. STEPHEN TABER, professor of geology at the University of South Carolina, was elected president of the South Carolina Academy of Science at the annual meeting which was held on March 30. Other officers elected were Dr. R. N. Brackett, Clemson College, *vice-president*, and Dr. G. C. Mance, of Winthrop College, *secretary-treasurer*.

THE American Association of University Women has awarded the Sarah Berliner fellowship to Dr. Sally Hughes-Schrader, of the department of biology of Bryn Mawr College.

THE Adams Prize of the University of Cambridge for 1927-28 has been awarded to Professor Sydney Chapman, of the department of mathematics in the Imperial College of Science and Technology, London. The value of the prize is about \$1,000. The subject set was "The Variations in the Earth's Magnetic Field in Relation to Electric Phenomena in the Upper Atmosphere and on the Earth."

THE Paris Academy of Medicine has awarded the Prince of Monaco prize of 100,000 francs to Professor Borel, of Strasbourg, for his work on the etiology of cancer.

SIR ALFRED EWING, principal and vice-chancellor of the University of Edinburgh, has been elected an honorary member of the Institution of Civil Engineers in recognition of his educational and scientific services.

THE Royal Medals of the Royal Geographical Society have been awarded as follows: The Founder's medal to Mr. Francis Rennell Rodd for his "Journeys in Air" and his studies of the Tuareg people; the Patron's medal to Mr. C. H. Karius, assistant resident magistrate, Papua, for his crossing from the Fly River to the Sepik. The following awards have also been made: The Murchison Grant to Mr. C. S. Elton for his three seasons' study of the distribution of life in Spitzbergen; the Back Grant to Mr. C. P. Visser for his exploration of the Hunza-Karakoram glaciers; the Cuthbert Peck Grant to Mr. Donald Cameron for his journey across the Sahara from Nigeria to Algiers; the Gill Memorial to Mr. George Dyott for his recent expedition in search of Colonel Fawcett.

THE council of the British Institution of Civil Engineers has made the following awards in respect of papers read and discussed at the ordinary meetings during the session 1928-29: A Telford gold medal and a Telford premium to Mr. Conrad Gribble, Lon-

don; a George Stephenson gold medal to Mr. Harry Hall, London. Telford premiums to Messrs. H. N. Colam, London; F. W. A. Handman, London; T. P. M. Somers, Glasgow; H. V. C. Johnstone, Sudan, and jointly to J. H. Hyde, Twickenham, and H. R. Lintern, Teddington.

*Nature* writes: "After fifty years in the service of the Royal Institution, Mr. Henry Young is about to retire from his post as assistant secretary and keeper of the library. He was engaged as an assistant in the library in 1879, when Tyndall was the resident professor, and was promoted ten years later to the position which he now occupies. He has been a devoted servant to the institution and a familiar friend to a large number of the members. The Royal Institution is full, as is well known, of interesting and honorable traditions, and Mr. Young has been and still is one of the chief agents of their preservation. In his place Mr. Thomas Martin, at present secretary to the institute of physics, has been appointed general secretary; Mr. Ralph Cory, assistant in the library, becomes librarian."

SIR ALBERT E. KITSON, director of the British Geological Survey on the Gold Coast, has retired after twenty-one years' service on the West Coast of Africa and has returned to England.

PROFESSOR H. B. WILLIAMS, of Columbia University, delivered the principal address at the initiation exercises of the Virginia Chapter of Sigma Xi, on May 1. On this occasion the President and Visitors Research Prize of \$100 in gold was awarded to Professor Joseph K. Roberts for his article "The Triassic of Virginia," which was judged to be the best scientific paper published from the university during the year 1928.

THE Pasteur Society of Central California held a dinner meeting in San Francisco on May 1. The speaker was Dr. W. H. Manwaring, professor of bacteriology and experimental pathology at Stanford University, who spoke on "Immunological Prophecy from Ancient Hieroglyphics."

PROFESSOR W. H. WRIGHT, astronomer in the Lick Observatory, will lecture before the Astronomical Society of the Pacific on May 20, on "Photographs of the Planets by Light of Different Colors."

DR. EDWARD W. BERRY, professor of paleontology and historical geology at the Johns Hopkins University, delivered an illustrated address on "The History of the Andes" before the Washington Academy of Sciences on May 10.

DR. DAYTON C. MILLER, head of the department of physics of the Case School of Applied Science, gave an evening address on May 3, under the auspices of

the Nebraska Academy of Sciences. His subject was "The Science of Musical Sounds." The address was accompanied by demonstrations of the Phonodeik and musical instruments. On May 4 he gave an address before the Science Colloquium of the University of Nebraska on "Ether-drift Experiments and Relativity," with demonstrations.

DR. WILLIAM H. HOBBS, of the University of Michigan, will be the commencement speaker at the Worcester Polytechnic Institute on June 13. The subject of his address will be "Engineering and Polar Exploration."

DR. BAILEY K. ASHFORD, Colonel U. S. A., retired, professor of mycology in the School of Tropical Medicine, San Juan, Porto Rico, has been requested by the executive council of the Association of Military Surgeons to deliver the Kober lecture at Georgetown University.

THE Edward K. Dunham lectures for the promotion of medical sciences will be given at the medical school of Harvard University at 5 o'clock, May 20, 22 and 24, by Dr. Louis Lapicque, professor of general physiology at the Sorbonne, Paris. The general subject will be "Chronaxie." Previous lecturers have been Dr. Willem Einthoven, of the University of Leyden; Professors Ross Granville Harrison, of Yale University; Richard Willstätter, of the University of Munich, and Sir Charles Scott Sherrington, of the University of Oxford.

As a memorial to the late Alfred Dodge Cole, formerly professor of physics at the Ohio State University, it is planned to collect a fund of \$50,000 to establish a library of physics as part of the university's Mendenhall Laboratory of Physics. Professor Cole's collection of scientific books has been given to the laboratory. The project is in charge of a committee of which Dr. Michael I. Pupin, Dr. Robert A. Millikan and Charles F. Kettering are members.

A MEETING in memory of Mr. Frederick T. Gates was held at the Rockefeller Institute for Medical Research on May 15, at which the speakers were Mr. John D. Rockefeller, Jr., Dr. William H. Welch and Dr. Simon Flexner.

DR. EARLE MELVIN TERRY, professor of physics at the University of Wisconsin and a member of the department of physics since 1902, died at his home of acute heart failure on May 1.

ALVIN CASEY BEAL, professor of floriculture at Cornell University for more than twenty-five years, has died at the age of fifty-seven years.

DR. ROBERT BAIRD RIGGS, Seoville professor emeritus of chemistry at Trinity College and a member of

the college faculty for thirty-three years, died on May 11 at the age of seventy-four years.

C. HERBERT BELANSKI, of the department of geology of the State University of Iowa, died on April 30, aged thirty-one years.

THE tercentenary of the birthday of Christiaan Huygens was celebrated at Leyden in April, the commemoration being organized by the Royal Academy of Science, in conjunction with the Senate of the University of Leyden and various scientific associations. Speeches were delivered by Dr. van Itallie, M. van Vollenhoven, Dr. P. Zeeman, Dr. A. J. Holleman, Dr. C. A. Crommelin and M. E. Piccard, tributes being paid to Huygens as the discoverer of fundamental laws of mechanics. It is proposed to publish in Amsterdam a souvenir containing reports of the speeches, with an account of the celebrations.

A LUNCHEON of the American Institute held in cooperation with the Exposition of Chemical Industries, New York City, was given at the Hotel Commodore on May 11. Dr. Ellwood Hendrick, curator of the Chandler Chemical Museum, Columbia University, presided. He stressed the need for "a concept of research" as part of the equipment of business executives. Dr. Arthur D. Little, president of A. D. Little, Inc., spoke on "Science—the Fifth Estate"; Dr. Harrison E. Howe, editor of *Industrial and Engineering Chemistry*, discussed "The Dollar Value of Chemical Research"; Dr. W. E. Emley, of the Bureau of Standards, spoke on "The Utilization of Farm Products in Industry," and Dr. C. E. Kenneth Mees, research director of the Eastman Kodak Company, spoke on the development of paints, varnishes, oils, anti-knock gasoline and other products.

A WORLD Congress on the History of Science, under the auspices of the new International Academy for the History of Science, will meet in Paris, May 20 to 25. Its chief business will concern international cooperation in compiling the history of the sciences. Organizers of the congress include: Abel Ray, of Paris; George Sarton, Belgian-American scholar and editor of *Isis*; Professor Henry E. Sigerist, of the Medical Institute of Leipzig; Professor Charles Singer, of the University of London; Karl Sudhoff, medical historian and former president of the Medical Institute of Leipzig, and Professor Lynn Thorndike, of Columbia University.

AN Associated Press dispatch reports that Dr. Jacob Gould Schurman, the American ambassador to Germany, was one of the chief speakers at a gathering on May 8 on the occasion of the dedication of the new Harnack House of the Kaiser Wilhelm Society

for the Advancement of Science. Foreign Minister Stresemann and President Adolf von Harnack also spoke. Ambassador Schurman is reported to have called Harnack House, which will be used as a residence for foreign scientists at the Society's Research Laboratories, "an agency for the promotion of international understanding." President von Harnack celebrated his seventy-eighth birthday on the same day.

ONE of the sessions of the coming meeting of the Botanical Society of America, to be held at Dartmouth College, Hanover, N. H., June 25-28, is to be devoted to cytology and genetics. No formal papers are to be read, but the meeting will be in the form of an exhibition and informal discussion of current research. All geneticists and cytologists who are planning to attend this meeting are urged to bring with them preparations, specimens, charts, etc., illustrating their own work, and to take part in the exhibit. Arrangements for space, microscopes, etc., should be made in advance, by communicating with Dr. Ralph E. Cleland, Goucher College, Baltimore, Md.

THE library of William J. Gies, professor of biological chemistry at Columbia University, consisting of more than 5,000 volumes, chiefly in biological chemistry and dentistry, has been presented by him to Columbia University for the use especially of the medical and dental schools, and is now contained in the library at the Medical Center.

FIELD MUSEUM OF NATURAL HISTORY, Chicago, has received by bequest the herbarium of the late Robert Ridgway, consisting of more than 4,000 specimens of plants from the region of Richland County, Illinois. The collection is particularly rich in critical groups of trees, such as the hawthorns and hickories, and forms an important addition to the Illinois herbarium maintained by the museum.

PROFESSOR CHARLES H. RICHARDSON, head of the department of mineralogy at Syracuse University, has formally transferred his mineralogical library to the university. The gift comprises more than 10,500 books, bulletins, separates, etc., together with *SCIENCE* complete to 1898, *Chemical Abstracts*, *Journal of Chemistry*, *Industrial and Engineering Chemistry*, *Journal of the Mineralogical Society*, *Journals of the American Mining Congress* and the *Institute of Mining and Metallurgical Engineers*. The gift was made on May 4, the twentieth anniversary of the founding of the department of mineralogy, the twenty-third anniversary of the appointment of Dr. Richardson to the faculty and the forty-third year of his teaching.

THE International Committee for Phytopathology and Economic Entomology, T. A. C. Schoevers, secre-

tary, Nassauweg 28, Wageningen, Holland, announces that two Eriksson prizes are offered for the two best memoirs, giving an account of new and original work on (1) Investigations on Rust (*Uredineae*) Diseases of Cereals (wheat, oats, barley or rye). (2) Investigations on the rôle played by insects or other invertebrates in the transmission or initiation of virus disease in plants. The value of each prize will be 1,000 Swedish crowns. Competitors may be of any nationality.

WE learn from *The British Medical Journal* that the Garton prize and medal has been instituted by the Grand Council of the British Empire Cancer Campaign for subjects of the empire, with the object of promoting research into the nature, causes, prevention and treatment of cancer. A medal, together with an honorarium of £500, will be awarded early in 1932 to the person or group of persons who shall submit the essay embodying the results of original investigations which, in the opinion of the judges appointed by the council, is the best contribution towards the early diagnosis of cancer.

THE Julius Rosenwald Fund will contribute \$50,000 a year for five years to support the University of Chicago clinics on condition that \$100,000 a year be raised from other sources; Max Epstein and Albert D. Lasker each pledged \$25,000 a year for five years. John Hertz has given the university \$75,000 for a study of disorders of the pituitary gland and related conditions. The Quaker Oats Company has granted \$4,500 for an investigation of the nutritive value of unirradiated and irradiated farina and the effect of ultraviolet rays on the various types of proteins; it has granted \$3,600 for a study of certain properties of cereals treated with ultraviolet rays. The following contributions have been made to the library fund of the Billings Hospital: Dr. Frank Billings and Mr. C. K. G. Billings, Mr. Charles Ruddock and the Knapp Fund each \$1,000, and Dr. Lester E. Frankenthal, \$257.24.

PROFESSORS C. K. LEITH and W. J. Mead, of the University of Wisconsin, conducted twenty-five graduate students in geology through the pre-Cambrian mining districts of Minnesota and Michigan from May 10 to 20.

PROFESSOR BERT HUDGINS, of the department of geography of the College of the City of Detroit, will conduct a transcontinental field course for Clark University from July 1 to August 23. The trip will be made as a bus party leaving Worcester and going by Washington, D. C., Knoxville, Memphis, to Grand Canyon and Los Angeles, and returning by a northern route taking in Yellowstone National Park and the Black Hills. Mrs. Hudgins will chaperone.

A COMMISSION of specialists plans to spend four months this summer investigating conditions in Russia and Siberia. The tentative personnel of the commission includes: Franklin S. Harris, president of Brigham Young University, Provo, Utah, chairman and agronomist; J. B. Davidson, Iowa State College, agricultural engineer; Benjamin Brown, North Carolina Agricultural College, poultry and marketing specialist, and K. B. Sauls, secretary. Others may be added to the group. The Russian government is planning to set aside a tract of ten million acres in Siberia where Russian Jews are to be colonized in order that they may have complete religious and industrial freedom. The Russian government is asking wealthy Jewish people in America to aid in the project. Before the backers consent they wish to obtain first hand information on the condition of members of their race in Russia and the nature of the land in Siberia.

*Nature* reports that a summer school of biology, under the direction of Professor F. A. E. Crew, is being organized by the Education Committee for the County Borough of Brighton, to be held at the Municipal Training College from August 2 to 16. Courses will be given on biology and the school curriculum (Professor A. D. Peacock, University of St. Andrews, and Mr. G. B. Walsh, High School for Boys, Scarborough), on the theory of the cell, the gene and organic inheritance in man (Professor F. A. E. Crew), and there will be single lectures on special topics. Practical and field work is being arranged. Particulars can be obtained from the secretary to the Brighton Education Committee, Mr. F. H. Toyne, 54 Old Steine, Brighton.

THE foundation stone of the International Hydrographic Bureau was laid at Monte Carlo on April 20 by the Prince of Monaco in the presence of the delegates of the International Hydrographic Conference and many prominent members of the British colony. The building is to be erected on the Quai de Plaisance. The Marchese Paulucci di Calboli, assistant secretary-general to the League of Nations, expressed the satisfaction with which the offer of the Principality of Monaco to provide such a suitable site for the International Hydrographic Bureau had been received by the Council of the League of Nations. The Marchese recalled that in July, 1919, when it was decided to provide a permanent bureau, Monaco was chosen because of its associations with the late Prince of Monaco, the founder of the Oceanographic Museum, who had contributed during his lifetime such valuable assistance to the furtherance of oceanographic research. On behalf of Sir Eric Drummond, secretary-general to the League of Nations, the Marchese tendered his thanks to the Dynasty of Monaco.

## UNIVERSITY AND EDUCATIONAL NOTES

THE General Education Board of the Rockefeller Foundation of New York has offered to Harvard University a conditional gift of \$400,000 to construct a laboratory for physics. The gift is offered subject to raising by the university of an additional \$600,000.

ANNOUNCEMENT has been made at the University of Virginia that the anonymous gift of a trust fund of \$6,000,000 for scholarships and fellowships made last year was from the late Philip Francis du Pont, who was a student at the university from 1897 to 1900.

Two gifts for the study of the structure of the brain have been received by Yale University. Harry Payne Bingham has placed at the disposal of the department of anatomy the duplicate specimens in his unique collection of fishes deposited in the Peabody Museum, and Mrs. Dudley S. Blossom, of Cleveland, has subsidized the study by a grant of \$5,000 a year for five years.

*The Boston Evening Transcript* reports that the Sargent School of Physical Education has been transferred to Boston University by Dr. Ledyard Sargent, president and owner, and will become a part of the Boston University school of education under the direction of Dean Arthur H. Wilde.

ON the occasion of the presentation of the freedom of the city of Edinburgh to Sir Alfred Ewing, principal and vice-chancellor of the university, he read a letter from Sir Alexander Grant, enclosing a check for £25,000 towards the building of a new department of geology, and promising a like amount within twelve months. This, he said, was in addition to a sum of £50,000 given to the university by Sir Alexander Grant a few years ago.

PROFESSOR FRED W. UPSON has been appointed dean of the graduate college of the University of Nebraska. He will retain the chairmanship of the department of chemistry, which he has held since 1918.

DR. E. U. CONDON, assistant professor of physics at Princeton University, has been appointed professor of theoretical physics at the University of Minnesota.

PROFESSOR J. H. BODINE, of the department of zoology of the University of Pennsylvania, has been appointed head of the department of zoology at the State University of Iowa. He succeeds Professor W. W. Swingle, who goes to Princeton University.

DR. PERCY EDWARD RAYMOND, since 1917 associate professor of paleontology at Harvard University, has been promoted to a professorship.

DR. W. H. ADOLPH, who has served the past two years as associate professor of chemistry in the Uni-