

## RECENT DEATHS

DR. HUGO DE VRIES, professor of botany at the University of Amsterdam from 1878 to 1918 and director of the Amsterdam Botanical Garden, died on May 21. He was eighty-seven years old.

DR. HERBERT HENRY THOMAS, petrographer to the Geological Survey of Great Britain, died suddenly on May 12. He was fifty-nine years of age.

THE death at the age of seventy-two years is announced of Sir James Walker, emeritus professor of chemistry in the University of Edinburgh.

DR. LEOPOLD REINECKE, consulting geologist, Johan-

nesburg, South Africa, died on April 16, in his fiftieth year.

M. LOUIS JOUBIN, of the Museum of Natural History and the Institute of Oceanography, Paris, died on April 24.

DR. PEDRO GUTIERREZ IGARAVIDEZ, who was associated in work on hookworm disease with the late Dr. Bailey K. Ashford, died on May 24, at the age of sixty-four years.

DR. BUNJIRO KOTO, professor emeritus of geology, Tokyo Imperial University, foreign correspondent of the Geological Society of America, died on March 8.

## SCIENTIFIC NOTES AND NEWS

DR. SIMON FLEXNER, director of the laboratories of the Rockefeller Institute for Medical Research since the opening of the institute in 1903, has presented his resignation to take effect on the appointment of his successor.

DR. FRANK R. LILLIE, professor of embryology and dean of the division of biological sciences of the University of Chicago, will retire at the close of the academic year with the title emeritus. Dr. William H. Taliaferro, head of the department of hygiene and bacteriology, has been appointed dean of the division, effective on July 1. Dr. Lillie was recently elected president of the National Academy of Sciences and chairman of the National Research Council.

DR. CHARLES RUSS RICHARDS, president of Lehigh University, has presented his resignation to the Board of Trustees on account of protracted ill health. Before becoming president of Lehigh in 1922 Dr. Richards was director of the Engineering Experiment Station at the University of Illinois. Eugene G. Grace, president of the board and of the Bethlehem Steel Corporation, has appointed a committee of trustees to seek a successor.

PROFESSOR G. W. HERRICK will retire from active teaching in June. For more than a quarter of a century he has taught the large beginning class in general entomology in Cornell University. He has also been entomologist of the Cornell Experiment Station and has published many bulletins and several books on economic insects. In recognition of his services a testimonial dinner was given him by his colleagues and friends on the evening of May 23. Addresses were made by Drs. Liberty Hyde Bailey, Cornelius Betten, P. J. Parrott and Simon Henry Gage.

PROFESSOR EMIL ABDERHALDEN, director of the Physiological Institute at Halle, has been elected a foreign member of the Lombardy Society of Medi-

cine and a corresponding member of the Pontifical Academy of Sciences in Vatican City.

*Nature* reports that F. G. Donnan, professor of general chemistry in the University of London, has been elected an honorary member of the Chemical Society of Rumania. Professor Donnan gave three lectures before the Danish Natural Science Association at Copenhagen during the week of May 20.

OFFICERS and councilors to serve during 1936 have been nominated by the council of The Geological Society of America as follows: *President*, W. C. Mendenhall, Washington, D. C.; *Past President*, Nevin M. Fenneman, Cincinnati; *Vice-presidents*, W. E. Wrather, Dallas; George D. Louderback, Berkeley; C. K. Swartz, Baltimore; C. S. Ross, Washington, D. C.; *Secretary*, Charles P. Berkey, New York; *Treasurer*, Edward B. Mathews, Baltimore; *Councilors* (1936-1938), Joseph Stanley-Brown, New York; Thomas L. Walker, Toronto; G. F. Loughlin, Washington, D. C. The election will take place at the 1935 annual meeting, to be held in New York City on December 26, 27 and 28.

AT the eighteenth annual meeting of the American Society of Ichthyologists and Herpetologists held at the Carnegie Museum, Pittsburgh, Pa., from May 2 to 4, the following officers were elected for the ensuing year: *President*, Clifford H. Pope, American Museum of Natural History; *Vice-presidents*, Henry W. Fowler, Philadelphia Academy of Natural Sciences; Tracy I. Storer, University of California, and E. H. Taylor, University of Kansas; *Secretary*, M. Graham Netting, Carnegie Museum; *Treasurer*, A. W. Henn, Carnegie Museum; *Editors*, Carl L. Hubbs and Helen T. Gaige, Museum of Zoology of the University of Michigan.

A PORTRAIT by Jacob Binder of Dr. Milton J. Rosenau, Charles Wilder professor of preventive medicine and hygiene at the Harvard Medical School, has

been presented to the school by his colleagues. Dr. Rosenau will retire from active teaching at the end of the current academic year. Dr. Elliott J. Joslin was chairman of the committee having charge of the project.

TRIBUTE was paid to Dr. Abraham J. Goldforb, professor of biology at City College, New York, at a dinner given on May 24 in celebration of his twenty-fifth year at the college. Speakers included Dr. Frederick B. Robinson, president of the college; Dr. Morton Gottschall, Dr. Paul Klapper, Dr. Harry A. Overstreet, Dr. William H. Park and Dr. Philip Smith.

IN celebration of the establishment in 1914 of courses in optometry at Columbia University a dinner was given on May 18 in honor of James P. C. Southall, professor of physics at Columbia University and director of professional courses in optometry, and of Professor Frederic A. Woll, director of the department of hygiene of the College of the City of New York, associate at Columbia University and member of the New York State Board of Optometry. Dr. Harlan H. Horner, assistant commissioner of higher education of New York State, and Dr. Charles B. Heisler, director of professional education, were the principal speakers. On this occasion Samuel H. Roberts, lecturer in optometry at Columbia University, received a plaque presented to him by the New York Academy of Optometry for distinguished service in optometry.

MONTANA STATE COLLEGE will confer at commencement the degree of doctor of science upon M. L. Wilson, assistant secretary of agriculture, formerly head of the department of agricultural economics at the college, and on Reno H. Sales, chief geologist of the Anaconda Copper Mining Company. Mr. Wilson will deliver the commencement address.

DR. EWEN M. MACEWEN, professor and head of the department of anatomy of the State University of Iowa, has been appointed dean of the College of Medicine. Since the retirement of Dr. Henry S. Houghton, who resigned as dean in 1932 to go to the University of Chicago, the affairs of the college have been in charge of an interim committee composed of Dr. John T. McClintock, Dr. Howard L. Beye and Dr. Everett D. Plass.

DR. PETER SANDIFORD, of the University of Toronto, has been appointed acting professor of psychology at Stanford University, for the winter, spring and summer quarters of next year.

DR. RAY LYMAN WILBUR, president of Stanford University and formerly Secretary of the Interior, has been elected president of the Motion Picture Research Council, succeeding Mrs. August Belmont, who resigned last June.

*Industrial and Engineering Chemistry* reports that Dr. F. D. Rossini, chemist at the National Bureau of Standards, Washington, D. C., has been appointed director of Project 6 of the American Petroleum Institute program of fundamental research. This project has for its purpose the separation, identification and determination of the constituents of petroleum. It was begun in 1928 and was directed by Dr. E. W. Washburn until the time of his death.

JULIUS J. TOROK, since 1925 with the Westinghouse Electric and Manufacturing Company, has joined the Research and Development Staff of Corning Glass Works, New York. Mr. Torok will give particular attention to the development of applications of glass to electric insulation.

THE Unionist Associations of the four Scottish universities have, by a unanimous vote in each case, adopted Professor John Graham Kerr, F. R. S., since 1902 Regius professor of zoology in the University of Glasgow, as National Unionist candidate for the impending vacancy in the parliamentary representation of the Scottish universities resulting from the appointment of John Buchan as Governor General of Canada.

M. CHARLES FABRY, of the University of Paris, member of the Institute of France, has become a member of the Bureau des Longitudes, in the place of the late Paul Painlevé. General Georges Perrin, professor at the Polytechnic Institute, has been elected a member to succeed the late M. Benjamin Baillaud.

F. TATTERSFIELD, head of the department of insecticides and fungicides of the Rothamsted Experimental Station, England, will attend the June meeting of the National Association of Insecticide and Disinfectant Manufacturers in Chicago.

A BILL has been introduced in the United States Senate proposing the authorization of an annuity to Frances Agramonte, the widow of the late Dr. Aristides Agramonte, member of the yellow fever commission.

DR. T. WINGATE TODD, professor of anatomy at Western Reserve University and director of the Harnemann Museum of Comparative Anthropology and Anatomy, spoke on "The Stomach's Response to our Menu" at the annual meeting of the University of Cincinnati Section of Sigma Xi on May 17.

DR. E. K. MARSHALL, professor of pharmacology at the Johns Hopkins Medical School, delivered the annual address before the North Carolina Chapter of the Society of the Sigma Xi on April 23. His subject was "The Significance of the Agglomerular Kidney."

DR. W. W. CORT, of the School of Hygiene and

Public Health of the Johns Hopkins University, addressed the Beta Beta Beta Biological Fraternity at Western Maryland College on April 30 on "Parasitic Diseases in Rural Egypt."

THE Eugenics Research Association will meet at the American Museum of Natural History, New York, on Saturday, June 1. There will be a morning session from 10 A. M. to 1 P. M., luncheon at the Museum Restaurant, and an afternoon session from 2:30 to 4:30. Those interested in eugenical research are invited to attend.

THE one hundred and ninety-ninth regular meeting of the American Physical Society will be held at Minneapolis on June 21 and 22, preceding the summer meeting of the American Association for the Advancement of Science from June 24 to 29. There will also be a meeting of the Pacific Coast Section from June 26 to 29 at Los Angeles, Calif.

THE Pacific Section of the Botanical Society of America will hold its annual meeting at the University of California at Los Angeles on June 26 and 27, in conjunction with the meeting of the Pacific Division of the American Association for the Advancement of Science and associated societies. A symposium on "Virus Diseases of Plants and Animals" is being arranged as a joint program of several societies for the forenoon of Wednesday, June 26. The sessions of Wednesday afternoon and of Thursday morning will be devoted to the reading of contributed papers. A symposium on "Chlorophyll" in the afternoon will be followed by a dinner for all biologists that evening. The program is being arranged by the officers of the Pacific Section, O. L. Sponsler, president, and F. Murray Scott, secretary.

THE Genetics Society of America will hold a summer meeting at the Marine Biological Laboratory, Woods Hole, Mass., on August 23 and 24. At this meeting two round table conferences will be conducted, one on "How Far Genetics Can Explain Ontogeny" with A. H. Sturtevant as leader and Curt Stern and J. L. Cartledge as introducers and the other on "Chromosomes and Their Relation to Genes" with E. M. East as leader and C. B. Bridges and Barbara McClintock as introducers. An evening lecture will be given by Professor Ralph E. Cleland on August 22. The society will hold its regular winter meeting at St. Louis, from December 31 to January 2. In addition, a branch meeting will be held at Princeton from December 30 to January 1, together with the American Society of Zoologists, in order to accommodate the eastern members who will be unable to attend the regular meeting. The society will also hold a meeting in connection with the section of agriculture of the American Association

for the Advancement of Science at University Farm, Minn., on June 25, in accordance with the program printed in *SCIENCE* for May 24.

A LOCAL branch of the Society of American Bacteriologists is being organized, to include members in Wisconsin, Iowa, Minnesota, North Dakota and South Dakota. A meeting for organization will be held at the University of Minnesota on June 26. This will be an all-day meeting, with a scientific program. It is not necessary to be a member of the parent society in order to join a local branch. Bacteriologists who may attend this meeting or who are interested in joining the branch are requested to communicate with Dr. A. T. Henrici, 18 Millard Hall, University of Minnesota.

AT Purdue University on May 17 and 18 there was held a conference for those teaching chemistry in the high schools of Indiana. The program was arranged by the Purdue department of chemistry in response to requests from the high school teachers, and consisted of talks by members of the department and a symposium dealing with the aims, subject-matter, methods of teaching and methods of measuring achievement, as pertaining to chemistry in the high schools of Indiana. At the conclusion of the regular program an organization was formed by the teachers from the high schools. Officers elected were: Frank B. Wade, of Shortridge High School, Indianapolis, *president*; C. O. Pauley, of Valparaiso, Ind.; *vice-president*; Miss June Ossenberg, of Martinsville, Ind., *secretary-treasurer*. It was voted to hold a similar meeting at the university in May, 1936.

APPLICATIONS for positions of biologist (wild-life research) of various grades in the Bureau of Biological Survey, Department of Agriculture, must be on file with the U. S. Civil Service Commission, Washington, D. C., not later than June 17. The entrance salaries range from \$2,600 to \$3,800 a year, subject to a deduction of 3½ per cent. toward a retirement annuity. Specified education and experience are required.

It is reported in the daily press that a sum of over \$1,000,000 was left to the University of Maryland Medical School in the will of the late Dr. Frank C. Bressler. The bequest will be used to establish a research laboratory to be named in honor of Dr. Bressler, who died on May 17, in his seventy-fifth year.

NINE fellowships in medicine, including two renewals, for study in the United States and abroad during the year 1935-36, were awarded at the spring meeting of the Medical Fellowship Board of the National Research Council, Washington, D. C., of which Dr. Francis G. Blake, Sterling professor of medicine at Yale University, is the chairman. A list of the

successful candidates follows: Oscar E. Block, Jr.; Berry Campbell; Jack M. Curtis (renewal); Windsor C. Cutting; Samuel Gurin; Robert E. Johnson; Benjamin F. Miller (renewal); E. Byron Riegel; Morris F. Shaffer. The next meeting of the Medical Fellowship Board will be held about February 1, 1936, and applications to receive consideration at that time must be filed on or before December 15, 1935.

At a meeting of the Committee on Teaching Fellowships for the department of biology, Washington Square College of New York University, the following awards were made: Olive F. Bartholomew, Radeliffe College; William Randal Bell, Rensselaer Polytechnic Institute; Philip Berkowitz, Washington Square College; Charles J. Cavanaugh, Louisiana College, University of Tennessee; Adele I. Cohen, Washington Square College, New York University; Lester L. Coleman, Cornell College; Ethel A. Glancy, Bryn Mawr College; Joseph W. Jailer, College of the City of New York; John W. Remington, College of Charleston; Gerald B. Russell, Lebanon Valley College, and Robert C. Warner, California Institute of Technology. These appointments are for the academic year 1935-36 at \$1,000 each.

THE David Dunlap Observatory, containing the second largest astronomical telescope in the world, was opened officially on May 31. The observatory and its equipment are the gift of Mrs. Jessie Donalds Dunlap to the University of Toronto as a memorial to her husband. The mirror for the telescope was moulded at Corning, N. Y., and ground and polished in England. It consists of a solid block of glass seventy-six inches in diameter, about a foot thick and it weighs close to 5,000 pounds. The mounting in which it is set weighs upwards of thirty tons. The observatory, which is about fifteen miles from Toronto, will be open to the public. It is second in size only to Mount Wilson Observatory. Dr. C. A. Chant, professor of astrophysics at the University of Toronto, will be director. His assistant will be Dr. Reynold K. Young, professor of astronomy at the university.

AN agreement has been reached between the Ohio Wesleyan University and the Ohio State University for the joint operation and use of Perkins Observatory. Both contribute toward the observatory budget. The director of the observatory will be appointed by the joint action of the Boards of Trustees of both institutions and its management is in the hands of a committee in which both universities are equally represented. This agreement contemplates an extension of research and general educational work.

THE present research program of the Basic Science Research Laboratory of the University of Cincinnati

will be discontinued about July 1. After that time, the work will be continued under the auspices of a new foundation for scientific research, the Institutum Divi Thomae. Dr. Sperti, director of the Basic Science Research Laboratory, and his research colleagues will transfer to the new institute. In addition to scientific research, the institutum plans a broad teaching program, which will be inaugurated in September with the establishment of a course in biophysics at Dayton University.

A HABITAT group of elephant seals, shown amid a reproduction of a typical scene on Guadalupe Island off the west coast of Mexico, has been completed at the Field Museum of Natural History. The specimens were collected by a special expedition conducted for the museum by Captain G. Allan Hancock, of Los Angeles, Calif., aboard the *Velero III*, which he has especially equipped for scientific work. Members of the expedition included Dr. Harry M. Wegeforth, president of the San Diego Zoological Society, and Julius Friesser and Frank C. Wonder, members of the taxidermy staff of the museum.

A NEW five-year cooperative course in mechanical engineering, leading to the degree of master of science, will open next month at the Massachusetts Institute of Technology, under the direction of Professor Jerome C. Hunsaker. The new course, which is designed to give students an insight into the technical and executive aspects of industrial manufacture, will be given in cooperation with the General Electric Company. Under the cooperative plan, which is similar to that successfully operated for several years past by the department of electrical engineering, students will carry on practical work in the company's plants in conjunction with their studies at the institute. The content of the first four years of the course will be essentially the same as that given in the present course in mechanical engineering, there being no omissions in the fundamental and professional subjects. Those subjects omitted from the regular course curriculum have their counterparts in the program at the works. The final year of graduate study and research will be planned for each student in accordance with the requirements of the graduate school. During the final term students may be assigned to the company's research departments for special work designed to develop individual aptitudes. Students will be chosen for the new option on the basis of aptitude and scholastic records after two years' study in the regular mechanical engineering course. The subsequent three years, including summers, will be spent either at Technology or at the industrial plants. The course will lead to the degree of master of science, together with the degree of bachelor of science as of the preceding year.