

way engineering in 1896, and in 1906 became associate professor of topographical engineering. He was promoted to the grade of professor three years later. For many years he was a member of the teaching staff at Technology's summer school of civil engineering at East Machias, Maine. He is a member of the Boston

Society of Civil Engineers and affiliated with the American Society of Civil Engineers.

To each of these retiring members President Comp-ton has written an expression of the gratitude of the institute for their long and important service to the institute.

SCIENTIFIC NOTES AND NEWS

DR. GRAHAM LUSK, professor of physiology emeritus at the Cornell University Medical College, has been elected a foreign member of the Royal Society, London.

At a dinner of the Advisory Board of the Wistar Institute of Anatomy on May 29 Dr. George E. Coghill, managing editor of *The Journal of Comparative Neurology*, announced the dedication of a complimentary volume of the journal to Dr. Henry H. Donaldson in celebration of his seventy-fifth birthday and in recognition of his many years of service to the science of neurology.

THERE will be held a meeting of appreciation and a tribute to Frank J. Sprague, the distinguished electrical engineer, on July 25, the seventy-fifth anniversary of his birth. The meeting will be held in the Engineering Societies auditorium at 8 o'clock, and addresses will be made as follows: "An Engineer's Contribution to the World's Welfare," Dr. John H. Finley; "An Engineer's Contribution to Transportation," Mr. Frank Hedley; "Frank J. Sprague—A Tribute," Rear Admiral S. S. Robison, U. S. N. (ret.); "Response" by Mr. Sprague.

YALE UNIVERSITY has conferred the doctorate of science on Dr. Frank R. Lillie, professor of embryology in the University of Chicago, and the doctorate of letters on Lieutenant Colonel Fielding H. Garrison, librarian of the Institute of the History of Medicine at the Johns Hopkins University.

DR. HARVEY CUSHING, who retired this year from the Moseley professorship of surgery at the Harvard Medical School, received at commencement the degree of doctor of science from Northwestern University.

AMONG the honorary degrees conferred at commencement by Boston University was the degree of doctor of science on Dr. Frank B. Mallory, professor of pathology at the Harvard Medical School, and on Dr. William P. Graves, surgeon-in-chief at the Free Hospital for Women, Brookline.

HONORARY degrees were conferred on June 13 by the Ohio State University on Charles F. Marvin, chief of the United States Weather Bureau, and on Walter C. O'Kane, professor of economic entomology at the University of New Hampshire.

THE doctorate of science was conferred at the recent commencement of Colgate University on Dr. Strashimir Alburtus Petroff, director of the Trudeau Sanitarium laboratory, Saranac Lake, New York; on Dr. Homer Levi Dodge, professor of physics and director of the graduate school at the University of Oklahoma, and on Dr. Ross Vernet Patterson, dean of Jefferson Medical College, Philadelphia.

At the commencement exercises of Washington and Jefferson College on June 4, the honorary degree of doctor of science was conferred on Dr. D. J. McAdam, Jr., metallurgist of the U. S. Bureau of Standards.

At the recent meeting of the Royal Society of Canada, the Sir Joseph Flavelle medal for science was presented to Dr. J. S. Plaskett, director of the Dominion Astrophysical Observatory at Victoria, British Columbia.

A PORTRAIT of Lord Rutherford, painted by Mr. Oswald Birley, was presented to the Royal Society on June 9.

A PORTRAIT of Dr. George F. Kay, dean of the College of Liberal Arts of the University of Iowa, was unveiled at the commencement dinner on June 2, and presented to the university as a gift of the graduating classes. The portrait was painted by the late Professor Charles A. Cumming, who for many years was head of the department of graphic and plastic arts in the university.

A PORTRAIT of Dr. J. McKeen Cattell has been presented to him by colleagues and former students. The painting is by Leopold Seyffert, N.A. The committee in charge consisted of Professor A. T. Poffenberger, of Columbia University; Professor S. I. Franz, of the University of California at Los Angeles, and Dr. F. P. Keppel, of the Carnegie Corporation.

PROFESSOR GEORGE H. SHULL, of Princeton University, has been elected a corresponding member of the German Botanical Society on the occasion of the fiftieth anniversary of its founding. Americans already on the list are R. A. Harper, A. S. Hitchcock, E. D. Merrill, B. L. Robinson and William Trelease.

DR. WILLARD BERRY, of the department of geology of the Ohio State University, has been elected a corresponding fellow of the Geological Society of Peru.

THE Academy of Natural Sciences of Philadelphia has elected as correspondents the following: Liberty H. Bailey, Henry B. Bigelow, Reginald A. Daly, Ludwig Diels, John Stanley Gardiner, Hugo Glück, William D. Gregory, A. S. Hitchcock, Adolfo Lutz, Emmanuel de Margerie, Elmer D. Merrill, Edward W. Nelson, Albert C. Seward, Edgar O. Ulrich and B. P. Uvarov.

IN recognition of her flight across the Atlantic, the special gold medal of the National Geographic Society was presented to Mrs. Amelia Earhart Putnam by President Hoover in special exercises on June 21. After the presentation Mrs. Putnam related to members of the society the story of her flight.

A DINNER was given to Dr. Walter R. Parker by his friends and colleagues on May 24, on the occasion of his retirement on July 1 as professor of ophthalmology in the University of Michigan Medical School. Dr. Frederick G. Novy presided as toastmaster at the dinner, and Dr. Alexander G. Ruthven, president of the university, made the opening remarks.

DR. ESMOND R. LONG, who recently resigned as professor of pathology in the Graduate School of Medicine of the University of Chicago, to go to the Phipps Institute of the University of Pennsylvania as director of laboratories, was awarded the Trudeau Medal by the National Tuberculosis Association at its annual meeting in Colorado Springs, Colorado, on June 6. The medal is awarded each year "for outstanding service to the tuberculosis movement."

DR. HENRY JAMES SPENCER has been appointed director of the second medical (Cornell) division of Bellevue Hospital, to succeed Dr. Eugene F. DuBois. Dr. Spencer has also been appointed assistant professor of clinical medicine in the Cornell University Medical College.

DR. L. P. SMITH, who has been spending the past year in Munich and Utrecht as National Research Fellow, has been appointed assistant professor of physics at Cornell University.

DR. K. H. GOODE, assistant professor of chemistry at Colgate University, has resigned. Dr. Sidney J. French, department head of chemistry at Franklin College, has been appointed assistant professor of chemistry, and Dr. D. W. Trainer, Jr., has been promoted from instructor to assistant professor.

At the Long Island College of Medicine, Brooklyn, N. Y., Dr. Alfred C. Beck has been appointed professor of obstetrics and gynecology, to succeed the late Dr. John O. Polak. Dr. Edgar D. Congdon has been appointed professor of anatomy. For the past five years he has been in charge of the department of anatomy at the Medical School of Chulalankarana

University, Bangkok, Siam. There has been created within the department of medicine a division of preventive medicine and community health. This has been placed in the hands of Dr. Alfred E. Shipley.

WE learn from *Nature* that at the annual general meeting of the Institute of Physics held on May 24, the following were elected to take office on October 1 next: *President*, Lord Rutherford; *Honorary Treasurer*, Major C. E. S. Phillips; *Honorary Secretary*, Professor A. O. Rankine. The other vacancies on the board were filled by the election of Professor H. S. Allen and Dr. C. V. Drysdale as vice-presidents, and Mr. R. A. Watson Watt and Mr. D. Orson Wood as non-official members. Sir Frank Dyson and Sir William Bragg were elected honorary fellows of the institute.

ALFRED P. SLOAN, JR., president of the General Motors Corporation, and Dr. Harlow Shapley, director of the Astronomical Observatory at Harvard University, have been elected life members of the corporation of Massachusetts Institute of Technology. Martin H. Eisenhart, vice-president and general manager of the Bausch and Lomb Optical Company, Rochester, New York; Bradley Dewey, president of the Dewey and Almy Chemical Company, Cambridge, and Jerome C. Hunsaker, vice-president of the Goodyear-Zeppelin Corporation, have been elected by the alumni association term members of the corporation to serve for five years.

THERE were elected at the annual meeting on April 23 of the Division of Geology and Geography of the National Research Council, officers, members and executive committee for the year 1932-1933, as follows: *Chairman*, W. H. Twenhofel; *Vice-chairman*, O. E. Baker; E. C. Case, representative of the Geological Society of America; August F. Foerste, representative of the Paleontological Society; Nevin M. Fenneman, representative of the Association of American Geographers; Mark Jefferson and Morris M. Leighton, members at large; *Executive Committee*, W. H. Twenhofel, O. E. Baker, Edson S. Bastin, W. L. G. Joerg, Sidney Powers and Clarence S. Ross.

A GRANT has been made by the Committee on Scientific Research of the American Medical Association to the department of anatomy of the Vanderbilt Medical School for research on the effects of certain colloidal solutions on experimental syphilis.

PROFESSOR PICARD, accompanied by Professor Max Cosyns, of the Queen Elizabeth Scientific Foundation, will make his second ascent for the scientific exploration of the stratosphere about the end of June or the beginning of July. The ascent, which will be made from Zurich, will have for its principal object the study of the cosmic radiation. The balloon with which

the first ascent was made will be used, but a new nacelle will be constructed.

PROFESSOR CARL L. A. SCHMIDT, chairman of the department of biochemistry at the University of California, sailed last week from New York for a trip to Germany under the auspices of the Oberlaender Trust of Philadelphia. He plans to investigate methods of organization and the teaching of biochemistry in Germany, and to compare them with American methods.

DR. C. F. NOLL, professor of experimental agronomy and farm superintendent at the Pennsylvania State College, left on June 17 on a three-months tour of agricultural experiment stations. He will follow a central route westward to California, proceed north through the Pacific Coast States, and return through the northern states.

DR. EDWIN C. VOORHIES, associate professor of agricultural economics in the College of Agriculture, University of California, is in New York City to study marketing outlets in the East for honey produced in California.

THE Osler Oration before the Canadian Medical Association was delivered on June 24 by Dr. Francis R. Packard, editor of the *Annals of Medical History*.

PROFESSOR W. A. BONE, professor of chemical technology in the Imperial College of Science, delivered the Bakerian Lecture before the Royal Society on June 9, taking as his subject "The Combustion of Hydrocarbons."

PROFESSOR SIR ALDO CASTELLANI, senator of Italy, delivered an inaugural address in connection with the opening of the new Clinica delle malattie tropicali of the University of Rome, speaking on "Tropical Medicine from Ancient Times down to the Present."

By the will of the late Mrs. Frances R. Biggs, widow of the late Dr. Hermann M. Biggs, New York University receives \$100,000 to increase the funds for the Hermann Michael Biggs professorship of preventive medicine. \$35,000 is left to the Henry Street Settlement for the Hermann and Frances Biggs tuberculosis visiting nurse fund and \$1,000 to the New York Tuberculosis and Health Association. A portrait of Dr. Biggs was presented to the New York Academy of Medicine.

THE American Philosophical Society and the Geological Society of America will receive \$4,000,000 each from the estate of Dr. Richard A. F. Penrose, final adjudication of which was made on June 15. Dr. Penrose, the distinguished economic geologist, died a year ago, leaving an estate valued at \$10,040,142. Bequests included \$50,000 to the University of Chicago and \$25,000 to the Economic Geology Publishing Company.

By the will of the late Dr. W. W. Keen, Brown University, of which he was a graduate and trustee, was originally bequeathed a trust fund of \$100,000, but a codicil lowered the bequest to \$15,000, in view of the shrinkage of values.

THE *Journal* of the American Medical Association reports that with the announcement of a grant of \$1,232,652 from the Rockefeller Foundation to McGill University, for the establishment of a neurologic institute, plans for the development of a neurologic center at the school were outlined. The grant will provide for the construction of a new building, especially equipped for research in neurology, neurosurgery and the physiology and pathology of the nervous system. More than \$150,000 has been pledged by friends of the university and members of the governing board. Dr. Wilder G. Penfield, professor and head of the department of neurology at McGill, has been selected to direct the institute. Dr. Penfield was born in Spokane, Washington; he is a Rhodes scholar and a graduate of the Johns Hopkins University School of Medicine. His associates will include Drs. Colin K. Russel and Frederick H. MacKay, clinical professors of neurology, and William V. Cone, assistant professor of neurologic surgery, also a native of the United States. The new building will be erected on a site opposite the present neurologic laboratories in the Royal Victoria Hospital building. The institute will be connected with the hospital and the pathologic building by an underground tunnel. Tentative arrangements provide for the erection of a seven story building to contain wards for public, semiprivate and private rooms, operating rooms, research laboratories, offices and a few rooms for resident graduate students.

THE China Foundation with headquarters at Peiping has awarded forty-three fellowships to Chinese scientific men for the carrying forward of research work in the fields of mathematics, physics, chemistry, botany, zoology and geology. About half the fellowships are for the prosecution of work in China, carried on by research workers who have received their training abroad, or by research fellows connected with the more prominent research laboratories. This is in contrast to the situation five years ago when the fellowships of this foundation were first awarded. At that time very little research work was being undertaken in China, and most of the awards were for the purpose of enabling candidates to secure specialized training in Europe and America. The China Foundation was established in 1925 on funds of the remitted American-Boxer Indemnity. The director is H. C. Zen, of Peiping.

THE Sigma Xi Club of Peking was organized on May 20 by a group of about forty Sigma Xi alumni resident in that city. At Peking are located six large

universities, a large medical school, the Geological Survey, and other research institutions. There is evidence that Peking is growing in importance as a center of scientific research. The membership of the newly formed club, of whom three fourths are Chinese, and one fourth Americans, is connected for the most part with Tsinghua University (the American Boxer indemnity school), Yenching University (a Chinese-American private institution), and the Peking Union Medical College (Rockefeller Foundation). Officers elected for the coming year are: *President*, W. H. Adolph (Pennsylvania), professor of biochemistry at Yenching University; *Vice-president*, Y. C. Mei (Worcester), president of Tsinghua University; *Secretary-Treasurer*, A. P. T. Sah (Worcester), professor of physics at Tsinghua University.

ACCORDING to a note in *Nature*, at the annual meeting of the British Science Guild held on May 25, Sir Samuel Hoare was reelected president for the ensuing

year, and affirmed his faith in the aims of the Guild. The annual report shows a year of useful work. It is said that perhaps its most interesting feature is the attempt which the guild is making, in conjunction with the Association of Scientific Workers, to provide an adequate channel for bringing before Parliament the views of scientific men. A Science Advisory Council is being set up, and it is intended that this council shall be in some sense comparable with the Federation of British Industries, in the sense that it shall be the liaison body for providing contact with Parliament in connection with scientific and technical matters coming before the House. The success of the projected council will depend on the degree in which it enjoys the cooperation of scientific and technical societies, a number of which have already agreed to participate. The extent of its activities, however, will be mainly determined by that of the funds placed at its disposal, and in this aspect the matter has yet to be put on a satisfactory basis.

DISCUSSION

AN EXPERIMENT IN TEACHING PUBLIC HEALTH ZOOLOGY AT ROLLINS COLLEGE

IN 1892, I gave before the medical school of Georgetown University a course in medical zoology—the first of its kind in this country, so far as I have learned. Similar courses have since been introduced by a number of American medical and premedical colleges.

Very frequently the thought has occurred to me that a modification of courses on medical zoology, taking in the broader aspects of public health zoology, would present to students (besides those preparing for a medical career) an instructive and interesting study. An opportunity to try out the experiment was recently presented during my winter residence at Winter Park, Florida, after retiring from government service. President Hamilton Holt, of Rollins College, is always on the lookout for professional men retiring to Winter Park to live a life of ease and whom he can impress into special service in connection with the instruction at Rollins. Hearing that I had chosen Winter Park as locality in which to enjoy a few months as a member of the "Order of the Sons of Rest," he invited me to become a member of the winter faculty for 1932. The temptation to try out my idea of public health zoology at Rollins (which is proverbially ready to try out new ideas) induced me to accept the invitation—in spite of my conviction that the way for a man to "retire" is for him actually to retire. Probably my active colleagues in zoology will be interested in learning the results of the experiment.

Nineteen students who elected the course are preparing as follows: pre-medical 3, psychology 3, economics 3, teachers 2, mathematics 1, diplomacy 1, finance 1, business 1, welfare work 1, matrimony 2, book critic 1. They represented postgraduates, seniors, juniors, sophomores and freshmen. Eight were men, eleven were women. Taken all in all, this was the most enthusiastic and most progressive class to which I have given instruction—during forty years of special lecture work in various universities. Instruction lasted ten hours per week through the winter term. Within a week the class was "standing on tip-toes" and the students were asking for special assignments of work. Part of the instruction was given in the lecture room, part in the laboratory, part out of doors (under campus trees on the lake shore), and one afternoon per week was devoted to visiting country schools (in order to study medical inspection of the children—especially in connection with the parasitic diseases); these schools were located at various points up to about 20 miles from the campus.

The human being (*Homo sapiens*) was made the center thought; theoretical radii were drawn in all directions, representing the various phyla of the animal kingdom; every zoological subject considered was studied in its practical relations to mankind—medical, welfare, economics, national and international relations, legal, food supply, etc. One of the most popular features of the course was a study of the animals used as food in different parts of the world, for instance, mollusks, arthropods, fishes, amphibia, reptiles, birds and mammals; this gave an opportunity to study classification, biology, commerce, economics,