

land or endowments to other American forestry schools, including the New York State College of Forestry, the Yale Forest School and the University of Washington.

AWARDS OF THE PERKIN MEDAL

ON January 14, at a meeting of the American Section of the Society of Chemical Industry, the Perkin Medal was presented to John E. Teeple, consulting engineer, 50 East 41st St., New York City, for "significant scientific, technical and administrative achievements, particularly the economic development of an American potassium industry at Searles Lake, California."

The medal was presented by William H. Nichols, following introductory remarks by L. V. Redman, an account of the early days of the medalist by L. M. Dennis, and a summary of the accomplishments of Dr. Teeple by Charles H. Herty.

The Perkin Medal is awarded "annually to the American chemist who has most distinguished himself by his services to applied chemistry." It was founded in 1906 at the time of the Perkin semicentennial celebration of the coal-tar discoveries, the first medal being awarded to Sir William H. Perkin himself. *Industrial and Engineering Chemistry* prints a list of previous Perkin medalists as follows:

Date of award	Awarded to	Principal fields of inventions
1907	Sir W. H. Perkin	Discovery of first aniline color
1908	J. B. F. Herreshoff	Metallurgy; contact sulfuric acid
1909	Arno Behr	Corn products industry
1910	E. G. Acheson	Carborundum; artificial graphite
1911	Charles M. Hall	Metallic aluminum
1912	Herman Frasch	Desulfuring oil and subterranean sulfur industry
1913	James Gayley	Dry air blast
1914	John W. Hyatt	Colloids and flexible roller bearings
1915	Edward Weston	Electrical measurements; electrodeposition of metals; flaming arc
1916	L. H. Baekeland	Velox photoprint paper; Bakelite and synthetic resins; caustic soda industry
1917	Ernst Twitchell	Saponification of fats
1918	Auguste J. Rossi	Development of manufacture and use of ferro-titanium
1919	Frederick G. Cottrell	Electrical precipitation
1920	Charles F. Chandler	Noteworthy achievements in almost every line of chemical endeavor
1921	Willis R. Whitney	Development of research and application of science to industry
1922	William M. Burton	Achievement in oil industry; efficient conversion of high-boiling fractions into low-boiling fractions

1923	Milton C. Whitaker	Great constructive work in field of applied chemistry
1924	Frederick M. Becket	Process for extraction of rare metals from ores; manufacture of calcium carbide; processes for reduction of rare metals and alloys
1925	Hugh K. Moore	Electrochemical processes for caustic soda, soda and chlorine, production of wood pulp, hydrogenation of oils, etc.
1926	R. B. Moore	Work on radium, mesothorium and helium

SCIENTIFIC NOTES AND NEWS

DR. FRANK SCHLESINGER, director of the Yale University Observatory, to whom the Royal Astronomical Society has awarded its gold medal, sailed from New York for London on February 12 to deliver the first George Darwin lecture under the auspices of the Royal Astronomical Society. This lectureship was recently founded by Dr. J. H. Jeans, secretary of the Royal Society, and formerly professor of physics at Princeton University.

DR. RICHARD WILLSTÄTTER, formerly professor of chemistry in the University of Munich, who, as previously recorded, will soon visit the United States, will give a series of lectures under the Edward K. Dunham lectureship at the Harvard Medical School, beginning on March 22.

PAUL G. REDINGTON, assistant chief of the Forest Service, has been appointed chief of the Biological Survey, of the U. S. Department of Agriculture, the appointment to become effective next May, to succeed Dr. E. W. Nelson, who has asked to be relieved of his executive duties. Dr. Nelson will remain in the survey as senior biologist.

THE Geological Society of London has announced the following awards: The Wollaston medal to Professor W. W. Watts; the Murchison medal to Dr. G. T. Prior, keeper of the department of mineralogy in the British Museum; the Lyell medal to Sir Albert Ernest Kitson, director of the Geological Survey of the Gold Coast; the Bigsby medal to Dr. Bernard C. Smith, of the Geological Survey; the Wollaston fund to Miss M. E. J. Chandler; the Murchison fund to Dr. S. H. Haughton, of the Geological Survey of South Africa; one half the Lyell fund to Dr. Leonard Hawkes, reader in geology at Bedford College, London, and the other half of the Lyell fund to Miss Edith Goodyear, senior assistant in the geological department of University College, London.

DR. HIDEYO NOGUCHI, of the Rockefeller Institute for Medical Research, has been elected an associate member of the French Society of Biology.

GUSTAF W. ELMEN, of the Bell Telephone Company Laboratories, has been named to receive the medal and \$1,000 honorarium of the American Institute of Electrical Engineers, in recognition of his work on the development of permalloy.

DR. CHARLES C. HUTCHINS, professor of physics at Bowdoin College, will retire at the end of the present college year and will become professor emeritus.

DR. LAWRENCE W. BAKER, professor of orthodontia at the Harvard Dental School, has received from the orthodontic staff of the school a silver loving cup, in recognition of his completion of twenty-seven years' service to the school.

E. H. FARRINGTON, chairman of the department of dairy husbandry at the Wisconsin Experiment Station, has retired from active service with the title of professor emeritus after thirty-two years' service.

DR. WILHELM BIEDERMANN, professor of physiology at the University of Jena, is to retire in April.

At the meeting of the American Society of Naturalists held in Philadelphia, Professor C. E. McClung, of the University of Pennsylvania, was elected president, and Dr. Donald F. Jones, Connecticut Agricultural Experiment Station, vice-president. Professor L. J. Cole, of the University of Wisconsin and the National Research Council, was elected secretary, to succeed Professor A. Franklin Shull, resigned.

DR. RALPH BOWN, radio engineer, has been elected president of the Institute of Radio Engineers, an honor given him shortly after the establishment of radiophone service between New York and London, in the development of which Dr. Bown had a prominent part. He has also been awarded the Liebmann memorial prize of five hundred dollars, which goes to the radio engineer having contributed the greatest advancement to the art during the previous year.

LEWIS BUCKLEY STILLWELL, New York engineer, was reelected chairman of the Engineering Foundation, research agency of the national societies of civil, mining, mechanical and electrical engineers, at the annual meeting of the foundation held on February 17. Arthur D. Little, president of the Arthur D. Little Laboratories, of Cambridge, Mass., was elected a vice-chairman.

DR. ALICE HAMILTON, of the Harvard Medical School, and Dr. C.-E. A. Winslow, of the Yale Medical School, have been appointed expert advisers to the health committee of the League of Nations.

PROFESSOR CHAS. R. FETTKÉ, of the Carnegie Institute of Technology, has been appointed honorary

curator of mineralogy at the Carnegie Museum, Pittsburgh.

DR. HENRY M. AMI, formerly of the Geological Survey of Canada, Ottawa, has been elected by the graduates of McGill University to serve on the board of corporation of that university for a term of three years.

DR. C. M. MEDLAR, professor of pathology in the medical school of the University of Wisconsin and assistant professor of pathology at the Wisconsin General Hospital, has resigned and will leave at the end of the present academic year to take a position with the Mt. McGregor Sanitarium in New York.

MICHAEL HEIDELBERGER, for a number of years connected with the Rockefeller Institute for Medical Research, has resigned to continue work as director of the chemical laboratory at Mount Sinai Hospital. The staff of the Rockefeller Institute gave a dinner in honor of Dr. Heidelberg on January 28.

L. J. FLETCHER, head of the division of agricultural engineering at the University of California Experiment Station, has resigned to accept a position with a commercial firm.

FRANK W. DAVIS has resigned from the U. S. Bureau of Mines to become metallurgical engineer for the U. S. Combustion Engineering Corporation, of New York.

HARRY S. SWARTH, curator of ornithology in the museum of vertebrate zoology, University of California, has been appointed curator of ornithology and mammalogy in the museum of the California Academy of Sciences, San Francisco, effective on March 1. Mr. Swarth succeeds Joseph Mailliard, who retires on account of advancing years and his desire to devote more of his time to research work.

KNUD RASMUSSEN, the Danish explorer, is preparing for a new Arctic expedition, the aim of which will be to throw light on the emigration of the first men into the Arctic region, investigating the origin of the Eskimos and their relation to other primitive people.

LEAVE of absence has been granted to Professor Claire E. Turner, of the department of biology and public health at the Massachusetts Institute of Technology, to allow him to take charge of public school health education in Cleveland.

R. B. FALKENSTEIN, instructor in biology at Lingnan University, Canton, China, has returned to America on furlough, returning *via* Siberia and Europe. His place is being filled by Mr. R. E. Wall. Both Mr. Falkenstein and Mr. Wall were formerly of the staff of the University of Minnesota. The head of the biology department at Lingnan University, Professor Wil-

liam E. Hoffmann, is also a former member of the staff of the University of Minnesota.

PROFESSOR G. ELLIOT SMITH, professor of anatomy in the University of London, delivered the Huxley lecture at Birmingham University on February 1 on "Science and Culture."

DR. J. S. HALDANE is giving in the University of Glasgow a course of ten Gifford lectures on "The Sciences and Philosophy."

WITH the opening of the fall semester at Hartford Seminary Foundation, Connecticut, James Y. Simpson, professor of biology at New College, Edinburgh, will give twenty lectures on the "Relation of Religion and Science."

PROFESSOR S. C. LIND, dean of the school of chemistry at the University of Minnesota, gave the principal address at the dedication of the new chemistry building at the University of Colorado on February 19. Dr. Lind spoke on the "Progress of Chemistry in the First Quarter of the Twentieth Century."

AT the regular monthly dinner of the biologists of Tucson, Arizona, on February 4, Dr. D. T. MacDougall, of the Carnegie Institution of Washington, discussed the rôle of green leaves in the synthesis of organic products necessary to man. Thirty-three biologists, including several winter visitors, were in attendance.

PROFESSOR CHARLES P. BERKEY, of Columbia University, is lecturing at Mount Holyoke College on the evening of February 25 on certain phases of the geological work of the Third Asiatic Expedition.

ON February 5, Dr. E. G. Martin, professor of physiology at Stanford University, delivered an address to the Royal Canadian Institute, on "Fatigue and Rest."

DR. GUSTAVE M. HORTSMAN, head of the department of chemistry and assistant dean of the College of Pharmacy at Fordham University, died on February 15, aged sixty-eight years.

DR. LLEWELLYN GARNET NOEL, professor of dental pathology in the Vanderbilt University School of Dentistry until its suspension in 1926, died on January 20, aged seventy-five years.

JOSEPH JACKSON LISTER, F.R.S., of Cambridge, England, known for his work on the Foraminifera, died on January 30, at the age of sixty-nine years.

SIR GEORGE GREENHILL, mathematician, well known for his work in aeronautics and gunnery, died on February 17.

LEOPOLD SPIEGEL, professor of chemistry in the

University of Berlin, has died at the age of sixty-two years.

DR. OTTO WIENER, professor of physics at the University of Leipzig, has died, aged sixty-five years.

INFORMATION has been received of the death of Professor Charles Marquis Smith, associate professor of physics at Purdue University, which occurred last July at the age of fifty-four years. Professor Smith had just completed twenty-five years in the department of physics. He was a former pupil of Dr. Röntgen in the University of Munich. At the time of his death he was president of the local branch of Sigma Xi and treasurer of the Indiana Academy of Science. In 1918 he was called to Washington as one of a committee to develop a course in radio for government use.

A PERPETUAL memorial was inaugurated in December in memory of Dr. Stanford Emerson Chaille, for many years dean and professor of surgery in the medical department of Tulane University. This memorial will be in the form of addresses, to be delivered by prominent surgeons and physicians, which will be published and deposited in an alcove to be dedicated to this purpose. The inaugural address was delivered on December 13, by Dr. Allen O. Whipple, professor of surgery at Columbia University and chief surgeon of the Presbyterian Hospital at New York City.

Nature states that a committee has recently been formed in Paris to raise funds for the erection of a monument to the memory of the famous French engineer, Gustave Alexandre Eiffel, the builder of the Eiffel Tower. Born in Dijon on December 15, 1832, Eiffel was trained as a civil engineer at the École Centrale des Arts et Métiers in Paris and became known as a great bridge builder. The contract for the tower which formed such a feature of the International Exposition of 1889 was signed in January, 1887, and the full height was reached on March 13, 1889. The steel lattice work reaches a height of 984 feet. Eiffel died on December 28, 1923, at the age of ninety-one years.

The Christian Science Monitor states that the first centenary of the passing of Alessandro Volta, who was one of the great pioneers in electrical science, will be commemorated by an exhibition to be held at the beginning of May in the Villa dell'Olmo. This villa is one of the finest on Lake Como. The exhibition will be presided over by Senator Guglielmo Marconi, and during the time the exhibition remains open an international electrical congress will sit at Como. It will be divided into three main sections, the first being devoted to a show of electric communications, illus-

trating the great progress made in the world of natural science during the last hundred years; the second will contain a national exposition of electrical industries, and the third will consist in a national exposition of the silk industry.

THE United States Civil Service Commission announces the open competitive examinations for agricultural engineer at a salary of \$3,800, associate agricultural engineer at a salary of \$3,000 and assistant agricultural engineer at a salary of \$2,400, applications for which must be on file with the Civil Service Commission at Washington, D. C., not later than March 22. The examinations are to fill vacancies in the Bureau of Public Roads, Department of Agriculture, for duty in Washington, D. C., or in the field, and in positions requiring similar qualifications.

THE Ohio Phytopathological Society held its third annual meeting at Columbus during farmers' week. Several of the members gave plant disease talks before the various sections of the farmer's week program. Seventeen were present at the banquet held at the Neil House on the evening of February 3. Dr. H. H. Whetzel, of Cornell University, was the guest of honor and gave an address on the future of plant pathology. At the business meeting the plans for the summer meeting of the American Phytopathological Society to be held in Ohio during the coming summer were discussed. Dr. H. C. Young and Curtis May, of the Ohio Agricultural Experiment Station, succeed Dr. W. G. Stover and Sherman Humphreys, of Ohio State University, as president and secretary of the society.

THE American College of Physicians held its eleventh annual clinical session in Cleveland, Ohio, from February 21 to 25, under the presidency of Dr. Alfred Stengel, of Philadelphia.

It has been decided to hold the next International Mathematical Congress at Bologna, in 1928.

DR. F. S. ARCHENHOLD, director of the Treptow Observatory, Berlin, has announced that the proximity of Mars to the earth has induced the arrangement of a special exhibition at the observatory. It is desired that any material relating to Mars such as old and new drawings, maps, books, etc., be sent for exhibition addressed Treptow-Sternwarte, Berlin-Treptow.

THE late Dr. Charles D. Walcott, secretary of the Smithsonian Institution, left an estate valued at more than \$160,000, of which \$50,000 is provided for the Smithsonian Institution, conditioned on it remaining independent of any executive branch or department of the government.

MORE than half the amount which the New York Botanical Garden is seeking as an endowment, chiefly for the purpose of building a laboratory for experimental research with plants, has been contributed, according to an announcement made by Dr. Frederic S. Lee, president of the board of managers of the garden. John D. Rockefeller, Jr., has pledged \$500,000 and Edward S. Harkness has given \$300,000. Additional donations which bring the total amount received so far to \$1,019,000 have been made by George F. Baker, Mrs. Andrew Carnegie, Robert W. de Forest, Dr. and Mrs. N. L. Britton, Daniel Guggenheim, Mortimer L. Schiff, Mrs. Arthur H. Scribner, Felix M. Warburg, Dr. and Mrs. Lee and others.

GIFTS totaling more than \$50,000 were received during the first three weeks in February by the American Society for the Control of Cancer. The amount needed to make R. Fulton Cutting's conditional gift of \$250,000 available is now reduced to \$260,266.

THE President in a recent letter to Congress asked for a supplementary appropriation for the legislative establishment, United States Botanic Garden, of \$876,390. The sum is needed, it was stated in the letter, for the construction of the necessary buildings required for the enlarging and relocating of the botanic garden.

ACCORDING to *Popular Astronomy*, the construction of a 24-inch reflecting telescope for the University of Kansas has recently been begun. Mr. William Pitt, of Kansas City, Missouri, an amateur astronomer, will grind and figure the mirror and will build the driving clock. Mr. Pitt, who is an expert machinist, is donating his services for this purpose. Pyrex will be used in order to minimize temperature effects. It is estimated that the telescope will be ready for use in about two years. It is planned to use the instrument for determining positions of asteroids.

THE Associated Sportsmen's Clubs, of California, is leading a campaign throughout western and Pacific coast states for a fund of \$10,000 to be used by the U. S. Biological Survey in defraying the expense of a preliminary survey looking toward the reflooding of Lower Klamath in California, Malheur Lake in Oregon and Bear River Marshes in Utah. Dr. E. W. Nelson, chief of the Biological Survey, has stated that, with this survey completed, the work of reflooding the areas mentioned might be accomplished at a moderate expense and dried up marshes converted from death traps into healthy resorts for birds.

ACCORDING to the *Experiment Station Record* a new wing is being added to the building of the School of Agriculture of Cambridge University, replacing a range of army huts set up in 1919. The new wing

contains a basement, three stories, and storage space in the attic, and measures 26 by 80 feet. The basement will contain three rooms, of which one is to be used for the nutrition calorimeters and another for metabolism experiments. On the first floor is a lecture room and other facilities for the work in estate management and on the second floor quarters for the farm economics staff and a library. The top floor will be devoted mainly to plant breeding, horticulture and tropical agriculture. The building is expected to be completed by April, 1927.

WISCONSIN'S first national forest will be established soon if the National Forest Reservation Commission gives its approval to U. S. Forest Service plans already approved by the State of Wisconsin. Governor Zimmerman, jointly with the Wisconsin land commission and the commissioner of conservation, has approved the proposal under the terms of an enabling act passed by the 1925 state legislature which extended permission to the federal government to acquire not more than 100,000 acres for the establishment of a national forest in Wisconsin. The purchase of the full 100,000 acres is contemplated in present federal Forest Service arrangements.

AN exhibition of some of the results of research recently carried out in adhesives (glues and sticking substances) and their application has been arranged at the Science Museum, South Kensington, by the adhesives research committee of the Department of Scientific and Industrial Research. This committee was established by the department in 1919 to continue the work of the adhesives research committee of the Conjoint Board of Scientific Societies which was set up towards the end of the war to conduct research on adhesives with the aid of a grant from the ministry of munitions. The exhibition was opened to the public on December 18, and will remain open for some months.

ACCORDING to press dispatches, the financial commission of the League of Nations assembly has decided to allot 30,000 gold francs for technical studies to be devoted especially to an investigation by a specialist of malaria and infant mortality and the creation of a system of medical statistics. The league is desirous of interesting Latin-American countries in technical activities, seeking to demonstrate that it can be useful to states who have few if any political problems to submit to Geneva.

UNIVERSITY AND EDUCATIONAL NOTES

COMPLETION of the fund of \$250,000 for the erection of a biological laboratory as a memorial to the

late President W. Arnold Shanklin and tentative plans for the building have been announced by Dr. James Lukens McConaughy, president of Wesleyan University.

NORTHWESTERN UNIVERSITY has received a bequest of \$100,000 by the will of the late Charles Deering, machinery manufacturer, of Florida.

THE faculty of the college of applied science of Syracuse University has voted to abolish the degrees of civil engineer, electrical engineer and mechanical engineer, and will hereafter award degrees of bachelor of science in the fields of civil, electrical and mechanical engineering.

DR. WILLIAM H. EYSTER, professor of botany at the University of Maine, has been appointed to the chair in botany at Bucknell University to take effect next year.

PROFESSOR W. L. HART has been appointed chairman of the department of mathematics at the University of Minnesota to succeed Professor W. H. Bussey, who resigned the chairmanship so that he might devote more time to his duties as assistant dean and as editor-in-chief of the *American Mathematical Monthly*.

H. J. WING has resigned his position as assistant professor of chemistry at Doane College to become assistant professor of chemistry at State College, Brookings, S. D.

THE University of Pittsburgh announces that the following engineers of the Westinghouse Electric and Manufacturing Company have received part-time appointments as Westinghouse lecturers: Director of courses, C. S. Coler; electrical engineering, J. F. Calvert, A. M. Dudley, W. C. Goodwin, Q. Graham, R. E. Hellmund, C. W. Kincaid, C. M. Laffoon, C. Lynn, J. F. Peters and J. Slepian; mechanical engineering, G. W. Penney, R. Soderberg and S. Timoshenko; physics, T. Spooner; physical metallurgy, O. W. Ellis; engineering mathematics, G. B. Karelitz.

DR. ALBERT SALATHE will go to Syracuse University in February from the Centenary College of Louisiana to become associate professor in the department of chemical engineering, college of applied science.

SIRÔZI HATTAS, formerly with the Mitsubishi Research Laboratory, Tokyo, Japan, is now assistant professor of chemical engineering, Tohoku Imperial University, Sendai, Japan.

PROFESSOR WILHELM TRENDELENBURG, professor of physiology at Halle, has been made rector of the university.