

leans; O. M. Wood, of Pittsburgh, Pennsylvania; A. F. Hough, of Washington, D. C.; L. G. Schnur, of Erie, Pennsylvania, and Miss C. E. Skamser, of Colorado Springs, Colorado.

### THE LONG ISLAND BIOLOGICAL ASSOCIATION

At the annual meeting of the board of directors of the Long Island Biological Association, held on December 13, the following gifts were reported, applicable to the Biological Laboratory at Cold Spring Harbor, Long Island. About \$15,000 have been received in contributions for research and current expenses during the year. In addition the treasurer announced a bequest of \$5,000 from the late Dr. Walter B. James. Other special gifts, above the amount raised for current work, include \$1,000 from Colonel T. S. Williams, \$250 from Colonel Henry L. Stimson, \$200 from Dr. C. B. Davenport, and \$200 from Mr. Russell C. Leffingwell, all for the recently constructed physiological laboratory. Mr. Walter Jennings and Mr. William J. Matheson made special gifts of \$750 each, and Mr. Mortimer L. Schiff, of \$400 for equipment for mammalian research. The Wawepeex Society contributed \$500 additional toward the renovation of Hooper Hall. Mr. Arthur W. Page donated subscriptions to scientific journals, and the estate of Mary E. Jones gave the use of a building. The association has a number of building lots available for sale to biologists working at the laboratory. A form of sale, similar to the forms in use at other institutions, was accepted by the board. The treasurer reported that the end of the fiscal year found the association free from loans or other financial encumbrances. A budget of \$44,870 was voted for 1928.

Announcement was made of a gift of \$12,000 from Mr. and Mrs. Acosta Nichols, of Oyster Bay. This gift is applicable toward the construction of a new laboratory for biological research. It will be known as the George Lane Nichols memorial, in memory of George Lane Nichols who was for two years a member of the nature study classes for children given under the auspices of the Biological Laboratory. The new research laboratory will be located near the recently finished physiological laboratory. The architecture will be that of the Long Island colonial type, including a main building about 50 by 25 feet, two stories high, and two ells each about 15 by 20 feet. Each room will be equipped with running fresh water and sea-water, gas and electricity, while all of the rooms on the first floor will have work tables capping solid concrete columns for use in research in which vibration and jar should be reduced to a minimum.

With the completion of this building late in the spring, the floor space available for biological work at the laboratory will have been more than doubled in three years. This increase has been made necessary by the growing realization on the part of experimental biologists of the ease with which material for research may be procured at Cold Spring Harbor. This is particularly true of *Fundulus* and other marine forms. The addition of another operating room and another animal room in the new building will also allow an increase in mammalian research.

At the same time living accommodations are being increased through the renovation of a large house purchased last year, and the purchase, upon very favorable terms, of another house from Mrs. Alethea Stewart, widow of Mr. John H. J. Stewart, a member of the board of directors for many years.

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### SCIENTIFIC NOTES AND NEWS

THE American Association for the Advancement of Science meets this week in Nashville, under the presidency of Professor Arthur A. Noyes, of the California Institute of Technology. Preliminary announcement of the programs of the fifteen sections and the associated societies will be found in the issue of SCIENCE for December 2. Dr. L. H. Bailey, retiring president of the association, is recovering from a surgical operation and is unable to be present at the Nashville meeting. He has not found it possible to prepare an address.

DR. SAMUEL WILSON PARR, professor emeritus of industrial chemistry in the University of Illinois, has been elected president of the American Chemical Society for 1928, succeeding Dr. George D. Rosengarten, of Philadelphia.

RUDOLPH F. SCHUCHARDT, electrical engineer at the Commonwealth Edison Company, Chicago, has been nominated for president of the American Institute of Electrical Engineers for the term beginning August 1, 1928.

THE Langley medal for aerodromics was presented to Colonel Charles Lindbergh at the annual meeting of the board of regents of the Smithsonian Institution on December 8. At the same time Colonel Lindbergh announced that the backers of the *Spirit of St. Louis* had met recently in St. Louis and had decided that the plane should ultimately be given to the Smithsonian Institution.

DR. WILLIAM J. MAYO, Rochester, Minnesota, was made commander of the Royal Order of the North Star by King Gustav of Sweden on November 28.

PROFESSORS NIELS BOHR and Albert Einstein have been elected foreign honorary fellows of the Royal Society of Edinburgh.

THE degree of doctor *honoris causa* of the University of Paris has been conferred on Sir Frederic Kenyon, director of the British Museum, and Professor J. S. E. Townsend, Wykeham professor of physics in the University of Oxford.

THE honorary degree of D.Sc. was conferred by the University of Oxford on Edward Ball Knobel, for ten years secretary and twice president of the Royal Astronomical Society.

THE Buckston Browne prize, which includes a medal and £100, of the Harveian Society of London for the best essay on "The Pathology, Diagnosis and Treatment of New Growths originating in the Walls of the Urinary Bladder," has been awarded to Lionel R. Fifield.

THE Langley memorial prize, which was founded by a friend of the late Dr. W. H. Langley, principal medical officer of Southern Nigeria, has been awarded to Dr. A. S. Burgess, of Accra, Gold Coast, West Africa, for his paper, "The Selection of a Strain of *Bacillus pestis* for the Preparation of Vaccine, with Special Reference to the Effect of Animal Passage on Virulence."

At the annual general meeting of the fellows of the National Institute of Agricultural Botany at Cambridge, England, Sir Daniel Hall, chairman of the council, presented the John Snell memorial medal for 1926 to Sir Matthew Wallace.

THE following officers of the Cambridge Philosophical Society have been elected for the session 1927-28: *President*, Dr. H. Lamb; *vice-presidents*, Professor J. T. Wilson, Professor A. Hutchinson, Professor G. I. Taylor; *treasurer*, F. A. Potts; *secretaries*, F. P. White, R. H. Fowler and F. T. Brooks.

PROFESSOR GOSSET, of Paris, has been elected president, and Professor Tixier, of Lyons, vice-president, of the French Congress of Surgery to be held during the coming year.

THE seventieth birthday of Professor S. G. Navaschine, the distinguished Russian botanist, was celebrated in Moscow on December 21 at a special meeting held in the university, when congratulatory addresses and greetings were presented to him.

*Nature* notes that on December 7 Professor Louis Dollo, honorary conservator at the Royal Museum of Natural History at Brussels, attained the age of seventy years. On that day there was presented to him a commemorative volume containing articles by fifty-

five biologists, as an appreciation of his work in extending to fossils the laws that govern all forms of life.

DR. R. T. A. INNES is retiring at the end of this year from the post of director of the Union Observatory, Johannesburg.

PROFESSOR E. C. WILLIAMS has resigned from the Ramsay chair of chemical engineering, tenable at University College, London, to take effect at the end of the second term of the session 1927-28.

DR. E. H. FARRINGTON, for thirty-three years head of the dairy department at the University of Wisconsin, has been appointed emeritus professor of dairy husbandry.

GEORGE A. OLSON, agricultural director of the Gypsum Industries, Chicago, has resigned, his resignation taking effect on February 1.

DEAN GERALD WENDT, of the school of chemistry and physics of the Pennsylvania State College, has resigned, effective July, 1928, to become director of the newly founded Battelle Memorial Institute for scientific and industrial research at Columbus, Ohio. Plans for the first two buildings of the new institute, costing about \$500,000, are now being completed and construction will begin early in the spring.

DR. JOHN S. BOYCE, pathologist in charge of the Portland, Oregon, headquarters of the forest pathology work of the U. S. Bureau of Plant Industry, has been appointed director of the Northeastern Forest Experiment Station at Amherst, Mass. This appointment will be effective early in 1928, the station in the interim being in charge of M. Westveld, associate silviculturist, as acting director.

HAROLD A. THOMAS, professor of hydraulics in the department of civil engineering at the Carnegie Institute of Technology, has been appointed hydraulic engineer for the city of Pittsburgh to make a study of flood heights as affected by various proposed changes on the water fronts.

J. N. TAYLOR, of Smyrna, Delaware, has been appointed to the chemical division of the Bureau of Foreign and Domestic Commerce, to be in charge of drugs and fine chemicals.

JOHN A. STEVENSON, botanist in the office of foreign plant introduction of the U. S. Bureau of Plant Industry, has been transferred to the office of mycology and disease survey of the same bureau. He will have charge of the mycological collections, taking the place made vacant by the resignation of Dr. James R. Weir, who is now working on rubber-disease problems in British Malaya.

DR. ERNEST J. WILHELM has been appointed to the newly established research fellowship in the depart-

ment of chemistry in the University of Notre Dame, for which funds have been provided by the Grasselli Chemical Co.

DR. JACOB MARKOWITZ, Toronto, has gone to the Mayo Foundation as first assistant in the division of experimental surgery and pathology.

DR. HOWARD A. KELLY, professor emeritus of gynecology, Johns Hopkins University School of Medicine, Baltimore, will deliver the Hunterian oration before the Hunterian Society in London, on January 16. The occasion is the two hundredth anniversary of the birth of John Hunter. The last Hunterian address was delivered by Dr. John M. T. Finney, of Baltimore.

DR. LOUIS B. WILSON, director of the Mayo Foundation for Medical Education and Research, will be the founder's day speaker of the ninetieth session of the Medical College of Virginia, January 20. At the same time the cornerstone will be laid for Cabaniss Hall, the new women's dormitory.

THE third annual Scripps Metabolic Clinic lecture for the San Diego County Medical Society will be given on January 7, at La Jolla, San Diego, by Dr. Cyrus C. Sturgis, director of the Thomas Henry Simpson Memorial Institute for Medical Research, Ann Arbor, on "Pernicious Anemia."

DR. SAMUEL L. HOYT, of the research laboratory of the General Electric Company, will give the second of the annual Priestley lectures in chemistry at the Pennsylvania State College from January 16 to 20. Dr. Hoyt will talk on "The Physical Chemistry of Metals and Alloys."

DR. OSKAR KLOTZ, professor of pathology and bacteriology, University of Toronto faculty of medicine, gave one of the DeLamar lectures in hygiene at the Johns Hopkins University School of Hygiene and Public Health on December 6 on "Yellow Fever in West Africa."

DR. EDWARD STARR JUDD, of Rochester, Minn., recently gave the Mütter lecture of the College of Physicians of Philadelphia on "Gastric and Duodenal Ulcer."

THE Christmas week lectures for young people on the James Mapes Dodge Lecture Foundation of the Franklin Institute were given on December 27, 28 and 29 by Dr. Wilder D. Bancroft, professor of chemistry in Cornell University. The titles of Dr. Wilder's lectures were "Combustion," "Comfort" and "Color."

WILLIAM BEEBE, of the New York Zoological Society, has returned from a lecture tour extending from St. Paul to New Orleans on which he spoke over fifty times on the subject "Beneath Tropic Seas," dealing with his work on the life of coral reefs on his recent

tenth expedition of the department of tropical research of the New York Zoological Society.

PROFESSOR HAROLD D. FISH, director of the Karamo Laboratory of Tropical Biology, British Guiana, will lecture before the Geographic Society of Chicago on January 10 on "Jungle Explorations in British Guiana."

ON December 10, Professor Alan W. C. Menzies, professor of chemistry at Princeton University, delivered an address to the Royal Canadian Institute, Toronto, on the subject "Atoms and how they combine."

DR. WM. M. DAVIS, professor emeritus of geology at Harvard University, will again visit the University of Arizona during the second semester this year as lecturer in physiography.

ON December 3, Dr. Chas. N. Gould, director of the Oklahoma Geological Survey, delivered a lecture before the Kansas Geological Society at Wichita, Kansas, on the subject "The Permian Problem in Kansas and Oklahoma."

THE Technical College in Vienna recently commemorated the centenary of the invention of the propeller, which is ascribed to Joseph Ressel, an Austrian forester.

DR. R. A. HERMAN, lecturer in mathematics in the University of Cambridge, died on November 29, aged sixty-six years.

DR. M. BAMBERGER, emeritus professor of inorganic chemistry at the Technische Hochschule in Vienna, died on October 22, aged sixty-six years.

PROFESSOR PAUL VON GROTH, for many years professor of mineralogy in the University of Munich, died on December 2, in his eighty-fifth year.

ACCORDING to a cable to the *New York Times*, Professor Vladimir Michaelovich Bakhterev, the distinguished Russian psychologist, died on December 24, at the age of sixty-nine years.

PROFESSOR DR. K. D. GLINKA, of Leningrad, Russia, who was elected president of the International Society of Soil Science during the world soil congress in Washington last June, died on November 2. He was known especially for his work in the field of soil classification.

PROFESSOR KEIZO NIWA, professor in the Tokyo Imperial University, an authority on Japanese pharmacology, died on October 19.

THE Philadelphia County Medical Society conducted a symposium on "The Oral Administration of Synthalin and Neosynthalin in the Treatment of Diabetes," at a special meeting on December 21. Dr.

E. Frank, professor of medicine at Breslau, Germany, discussed "Chemical Experimental and Clinical Investigation of Synthalin and Neosynthalin," and Drs. Orlando H. Petty, Carl Schumann and Horace B. Conway and W. S. Carr, "The Clinical Investigation of Synthalin and Neosynthalin."

THE spring meeting of the American Electrochemical Society, which will take place at Bridgeport, Conn., in April, will be featured by a symposium on "The Chemical Production of Electricity" under the chairmanship of Dr. G. W. Vinal, of the U. S. Bureau of Standards. Among those who will take part in the symposium are Marion Eppley, president of Marion Eppley, Inc.; Geo. E. Stringfellow, vice-president, Edison Storage Battery Co.; M. L. Martus, president, Waterbury Battery Co.; and C. A. Gillingham, Works Mgr., National Carbon Co. The discussion will include standard cells, dry cells, gas cells, storage batteries, electrolytic rectifiers, etc. This session will be held on April 26.

THE Budapest correspondent of the *Journal* of the American Medical Association reports that on the suggestion of the secretary of the congress for cellular research held recently in Budapest, the management resolved to appoint one European committee and one extra-European committee. Members of the European committee are Rhoda Erdmann, of Berlin; A. Fischer, of Dahlem, Germany; G. Levi, of Turin, and Fauret-Premiet, of Paris. The extra-European committee consists of R. G. Harrison, of New Haven, A. Carrel, of New York, and W. H. Lewis, of Baltimore. The cooperation of the two committees is maintained by Rhoda Erdmann, as the permanent general manager of the Society of Cytologists, whose periodical, the *Archiv für experimentelle Zellforschung*, becomes the official organ of the society. Within one year the delegates of the separate nations will organize those interested in cellular research in their own countries, and each of these national societies will delegate one member to the proper committee. Decision as to the time and place of the next congress must be made on the basis of the written votes of all the delegates. It was unanimously accepted that the name of the society be altered for a more general one in order to render possible the participation of members of other scientific societies. The name of the society will be International Experimental Cellular Research Society.

THE shipment from China of scientific specimens obtained by archeological and other scientific research expeditions has recently been strictly limited as a result apparently of an increasing nationalistic spirit. Research has thereby been greatly hampered.

GIFTS by Edward Epstein, of New York, of 200

volumes to the chemical library at Columbia University and of the death mask, a cast of the hands, the photographic apparatus and two likenesses of the late Karl Klietsch, of Vienna, to the Chandler Chemical Museum, have been announced. Klietsch was the inventor of the photogravure and rotogravure processes, and his camera, plate-holders and his tools are of great interest.

THE Hooper Foundation for Medical Research has set aside an annual allotment of \$5,000 to carry on research in infantile paralysis. Following an appeal to the public, the director of the foundation has received more than \$7,000 in donations to be used in providing serum for children who may contract the disease.

DR. R. B. WILD, who has recently retired from the Leech chair of materia medica and therapeutics at the University of Manchester, has made a gift of £250 for the endowment of a prize in pharmacology.

THE late Sir Arthur Shipley, of the University of Cambridge, bequeathed to the Molteno Institute his books connected with parasitology; to the Balfour Library his books connected with zoology, and to the Library of the Philosophical Society certain of his scientific books.

As has already been recorded in *SCIENCE*, Eldridge R. Johnson, formerly president of the Victor Talking Machine Company, has given \$800,000 to the University of Pennsylvania to establish the Eldridge R. Johnson Foundation for Research in Medical Physics. It will have as one of its purposes the scientific determination of the value which may attach to a variety of physical methods used in the study and especially the treatment of disease. Some idea of the range of studies that will be carried on in the new foundation may be gained from the fact that the plans call for six laboratories, each having a definite field of activity. They will be: (1) A laboratory for studies in light and optics, including investigations relating to sunlight, mercury-quartz lamp rays and infra-red rays. Radium emanations, roentgen rays and highly related topics in this field also will fall under this division. (2) A laboratory for studies of the effects of heat, including the biologic aspects and the practical bearing of heat on problems of disease and its treatment. (3) A laboratory for studies in sound and audition, including the investigation of hearing and the application of instrumental methods for improving human hearing. This laboratory also will conduct studies in the reproduction of sounds (heart-sounds and the like), and in the physical effects of sound. (4) A laboratory for the determination of physical measurements—for studies of movements in

the human body such as heart action, movements of the stomach and intestines, the flow of blood and the intake and output of air. (5) A laboratory for photographic and cinematographic study of bodily processes and conditions. (6) A laboratory for the study of electricity in its relation to the diagnosis and treatment of disease.

DR. BARTON WARREN EVERMANN, director of the museum of the California Academy of Sciences, has, with the authority of the council, sent two men from the museum staff to the Galapagos Islands to do scientific work. The men sent are Mr. Joseph R. Slevin, curator of herpetology, and Mr. Frank Tose, chief of exhibits. They sailed from San Francisco as the guests of Captain G. Allan Hancock on his private yacht, the *Ococa*, on November 23. They planned to finally reach the Galapagos Islands about the first of December, where they expected to remain some time. The purpose of the expedition so far as the academy is concerned is to do general collecting for the museum and to obtain accessory materials for a number of habitat groups, including at least one species of gigantic tortoise and one or two of the giant iguanas. Captain Hancock is interested in scientific problems and especially in photography. He has taken with him as his official photographer Mr. George E. Stone, an expert in moving pictures and still photography. The expedition will return to San Francisco about the middle of January.

THE proposed standard on symbols for hydraulics has been prepared by subcommittee No. 2, of which G. E. Russell, professor of theoretical hydraulics of the Massachusetts Institute of Technology, is chairman. This subcommittee was organized on May 3, 1926, by direction of the executive committee of the sectional committee on scientific and engineering symbols and abbreviations of the American Society of Mechanical Engineers for the purpose of recommending a list of standard symbols for use in the field of hydraulics. The proposed tentative standard has received the approval of the subcommittee and is now being circulated with a request for criticism and comment. Communications should be addressed to Preston S. Millar, secretary of the sectional committee.

*Museum News* states that a request for a city appropriation of \$10,000 for 1928 has been made by the San Diego Society of Natural History, which bases its plea on the fact that its museum is open to the public daily, without charge, and that it maintains a school service, lecture program, nature walks and excursions and carries on explorations and research work. City funds are granted to three similar institutions in the city.

AN out-door botanical and biological laboratory and demonstration ground will be developed at the University of Wisconsin, if plans originated by Regent M. B. Olbrich, of the state university, and approved by the board of regents at its December meeting carry through. The regents appropriated an \$83,000 balance in the Tripp Estate fund to aid in the purchase of land adjoining Lake Wingra, with the understanding that at least as much more will be provided from other sources. The Olbrich plan provides for the purchase of from 700 to 1,000 acres with a frontage of 8,000 feet on Lake Wingra—the whole of what is known as the Lake Forest area at Madison. The tract would be set aside as a forest preserve, arboretum and wild life refuge.

GIFT to the State of Massachusetts of twenty-six acres in Boxford, to be used as an addition to the Crooked Pond Wild Life Sanctuary, has been announced by William A. L. Bazeley, state commissioner of conservation. The givers are the Associated Committees for Wild Life Conservation, representing the Massachusetts Audubon Society, the Massachusetts Fish and Game Protective Association and the Federation of Bird Clubs of New England, Inc.

THE college of agriculture of the University of Wisconsin has been authorized by the university regents to engage in a cooperative program of forest conservation research with the state conservation commission and the U. S. Forest Service. The problem which will first be studied under the authorization of the regents is treatment of farm wood lots and swamp tracts. Problems relating to commercial forest tracts also are included in the general program.

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## UNIVERSITY AND EDUCATIONAL NOTES

THE Yale University endowment fund drive has passed its goal of \$20,000,000.

AT George Washington University the college of engineering, which was formerly under the department of arts and sciences, has been replaced by a separate school of engineering in the recent reorganization of the university.

DR. M. ALLEN STARR has given \$2,500 to constitute the Starr Fund for the department of neurology in Columbia University, either the principal or income of which may be used at the discretion of the executive head of the department.

DR. GUSTAV BOHSTEDT, chief of the animal husbandry department of the Ohio Agricultural Experi-