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Treasurer, William H. Wiley, New York City.

Delegates to American Engineering Council, Dr. William F. Durand, Stanford University, Calif.; Fred R. Low, New York City; Wilson P. Hunt, Moline, Ill.; I. E. Moulthrop, Boston, Mass.; E. N. Trump, Syracuse, N. Y.; William W. Varenny, Baltimore, Md.; Ira Dye, Seattle, Wash.; W. S. Finlay, Jr., New York City; Dean E. Foster, Tulsa, Okla.

AMERICAN ASSOCIATION OF MUSEUMS

THE American Association of Museums has removed its headquarters from the Smithsonian Institution, Washington, to New York City. The new offices are on the 10th floor of the office building, at 2 West 46th Street, New York City. This change has been prompted by a belief that more effective service can be rendered to museums under the new arrangements.

The association is entering upon the second year of a three year period during which the financing of an enlarged program is assured. Continuance of the work beyond the limits of this trial period will hinge entirely upon the effectiveness of performance now. Inasmuch as experience of the past year has pointed to New York as the most convenient center of association activities, it has seemed imperative to establish headquarters there.

Since May 1923, the association has received the hospitality of the Smithsonian Institution, which has furnished it with office space in the old National Museum building. In leaving Washington, the officers of the association express their gratitude to the Smithsonian Institution and their feeling of reluctance in losing a part of its cooperation.

LAURENCE VAIL COLEMAN,
Secretary

NATIONAL RESEARCH FELLOWSHIPS IN THE BIOLOGICAL SCIENCES

THE Board of National Research Fellowships in the biological sciences held its fall meeting on September 6 and made the following appointments:

B. E. Gilbert, botany.
T. N. Jenkins, psychology.
W. E. Loomis, botany.
Helen Redfield, zoology.
A. M. Showalter, botany.

The next scheduled meeting of the board will come in April, 1925. Applications for consideration at that time should be in the hands of the board (office: National Research Council, Washington, D. C.) not

later than the first week in March, but may be received at any time during the year prior to then.

FRANK R. LILLIE, *Chairman*

Board of Fellowships in the Biological Sciences
NATIONAL RESEARCH COUNCIL

SCIENTIFIC NOTES AND NEWS

HARVEY SOCIETY lectures, under the patronage of the New York Academy of Medicine, for the season 1924-25, will be given as follows: October 25, Dr. W. S. Miller, professor of anatomy at the University of Wisconsin; November 15, Dr. A. V. Hill, professor of physiology at University College, London; December 6, Dr. W. Einthoven, professor of physiology at the University of Leyden; January 17, Dr. A. R. Dochez, associate professor of medicine at the College of Physicians and Surgeons, New York; Professor O. M. Schloss, professor of pediatrics at Cornell University Medical College. There will also be a lecture by Professor T. Madsen, director of the State Serum Institute at Copenhagen. Titles of the lectures will be announced later.

DR. ARCHIBALD VIVIAN HILL, professor of physiology at the University College, London, will give the sixteenth course of lectures on the Herter Foundation of the Johns Hopkins University School of Medicine, as follows: October 16, "The dynamics of muscular activity;" October 17, "The heat-production of muscle;" October 20, "The chemical changes accompanying muscular activity;" October 21, "The recovery process after exercise in man."

THE faculty of medicine of Harvard University has announced two lectures, to be given under the Edward K. Dunham lectureship for the promotion of the medical sciences on October 21 and 22, by Willem Einthoven, professor of physiology at the University of Leyden, on "The relation of the mechanical and electrical phenomena of muscular contraction with special reference to cardiac muscle."

DR. EDWARD HART, dean of the Pardee scientific department of Lafayette College, has been given the title of professor of chemistry emeritus. Dr. Hart's connection for fifty years with the Lafayette College faculty is now being celebrated.

DR. HARVEY CUSHING, professor of surgery at the Harvard Medical School, has been elected a member of the Medical and Surgical Society of Bologna.

DR. DOUGLAS W. JOHNSON, professor of physiography at Columbia University, who represented seven American universities as exchange professor in applied science and engineering to the universities of France for the academic year 1923-24, has had conferred upon him by the French government the decoration of Chevalier of the Legion of Honor.

THE American Geographical Society of New York has presented the Serbian physical scientist, Dr. Yovan Tsviyitch, professor at the University of Belgrade and president of the Serbian Academy of Science, with a gold medal, in token of recognition of his services in the field of geography.

THE Royal College of Physicians of London has bestowed on Dr. Albert Calmette, assistant director of the Pasteur Institute, the gold medal and the Weber-Parkes triennial prize for the best original article on tuberculosis.

CAPTAIN EDWARD KIDSON, formerly of the department of terrestrial magnetism of the Carnegie Institution, now with the Commonwealth Meteorological Bureau at Melbourne, Australia, has received the honorary degree of D.Sc. from the University of New Zealand.

DR. M. JEAN CAMUS, professor of physiology at the Paris Medical School, has been elected a member of the French Academy of Medicine.

THE French Academy has awarded one of the Montyon prizes to Dr. Rodiet, chief of the Ville-Evrard Asylum, for his manuscript "Reminiscences of an army medical officer during the world war."

PROFESSOR H. PITTIER, connected for twenty years with the U. S. Department of Agriculture and now director of the Commercial Museum at Caracas, Venezuela, recently received from the French government the ribbon of Officier de l'Instruction publique, in recognition of his work on the botany, geography and ethnology of Central and South America.

DR. W. J. V. OSTERHOUT, professor of botany at Harvard University, has been appointed a member on the scientific staff of the Rockefeller Institute for Medical Research. He will assume his new duties on September 1, 1925.

DR. C. S. PALMER has accepted a position with the bureau of scientific research of the Institute of American Meat Packers, of which Dr. W. Lee Lewis is director. For the present, Dr. Palmer will conduct the experimental part of his work at Northwestern University.

DR. FRED W. WARD has recently accepted the position of chemist-pharmacologist in the Federal Department of Health, at Ottawa, Canada.

F. P. GROSS, formerly on the staff of the department of chemistry at Cornell University, is now connected with the Air Reduction Sales Company.

AFTER seventeen years of service, Dr. W. C. Geer, vice-president in charge of research at the B. F. Goodrich Rubber Company, Akron, Ohio, has resigned.

R. J. BLAIR, who has had charge of the work in pathology at the Forest Products Laboratories of Canada since this line of work was established in 1915, has resigned from this position in order to engage in farming at Ormstown, Quebec.

DR. CRICHTON MITCHELL, superintendent of the Observatory at Eskdalemuir of the English Meteorological Office, retired on September 1.

DR. WILHELM V. BRANCA, formerly professor of geology and paleontology at the University of Berlin, celebrated his eightieth birthday on September 9.

DR. N. H. DARTON, of the United States Geological Survey, has returned to Washington after an extended examination of the ruins of the archaic temple of Cuicuilco, twelve miles south of the city of Mexico, for the purpose of determining their age and relation to the surrounding lava flow. The investigation was made for the National Geographical Society, which is cooperating with the Mexican government in unearthing the ruins.

NEIL M. JUDD, curator of American archeology in the U. S. National Museum, who left Washington early in May to resume direction of the National Geographic Society's explorations at prehistoric Pueblo Bonito, New Mexico, has recently returned from the west. The past season, the fourth at Pueblo Bonito, proved noteworthy both as to the archeologic data collected and the amount of cultural material recovered.

DR. ALICE HAMILTON, of the Harvard Medical School, left on October 8 for Poland and Russia to study health conditions in industry there in behalf of the League of Nations, of whose health commission she is a member.

DR. J. ENRIQUE ZANETTI, associate professor of chemistry at Columbia University, has returned from abroad, where he went as a member of a special commission of chemical experts appointed by the League of Nations to examine into the present status of gas as a weapon of warfare.

DR. MORTIMER D. LEONARD, formerly associated with the United States Department of Agriculture, has returned after three months in Spain, where he studied methods of combatting the fruit fly.

A FRENCH Arctic expedition, headed by M. Jules de Payer, is to start for the polar regions at the end of next March, according to *Le Journal*. The party will proceed in a specially equipped vessel to the Franz Josef Archipelago, whence an attempt will be made to fly across the North Pole.

CAPTAIN ROBERT A. BARTLETT, the explorer, has announced plans to drift through the pack ice of

the North Pole, from Bering to Spitzbergen, 2,700 miles, in a small steamer. It is estimated it would require from three to five years to make the voyage.

DR. HANS ZINSSER, professor of bacteriology and immunology at the Harvard Medical School, delivered the address on the occasion of the seventy-eighth anniversary of Ether Day at the Massachusetts General Hospital, on October 16.

PROFESSOR S. P. L. SÖRENSEN, director of the Carlsberg Laboratory, Copenhagen, Denmark, delivered an address on October 7 before a joint meeting of the Washington Academy of Sciences and the Chemical Society of Washington, and on October 9 he lectured under the auspices of the Herter lecture fund at the Johns Hopkins University.

PROFESSOR V. BJERKNES, of the University of Bergen (Norway), will give a course of lectures at the California Institute of Technology this fall and then participate in a course of lectures and exhibit in Washington about the middle of December, at the Carnegie Institution of Washington, of which he is a research associate.

A BUST of the celebrated sixteenth century physiologist, Santorio Santorio, was recently unveiled at Capodistria at the termination of the Italian Congress of Hydrology.

PROFESSOR W. A. LOCY, head of the department of zoology at Northwestern University, has died at the age of sixty-seven years.

DR. SELIAN NEUHOF, formerly professor of clinical medicine at Fordham University Medical School, known for his work on cardiac diseases, died on October 6, aged sixty-three years.

DR. A. G. MCGOUGAN, professor of physics and head of the department of physics in the University of Saskatchewan, died on September 28.

THE American Mining Congress will meet at Sacramento, California, from September 29 to October 4, for its twenty-seventh annual convention.

THE seventh annual meeting of the American Dietetic Association was held at the New Ocean House, Swampscott, from October 13 to 16. The program was divided into four sections—administrative, educational, dietotherapy and social service, one day having been set aside for each section. In addition to the program there was a commercial and non-commercial exhibit.

THE Geneva Agricultural Experiment Station has received a "Grand diploma" from the Italian government in recognition of its work in behalf of the dairy industry of the world. The diploma was awarded at the first international dairy exhibition held at Milan.

AN appropriation of \$10,000 has been made by the Boston City Council to enable Dr. W. T. Bovie, of the city's Medical Conservation Bureau, to carry on experiments with ultra-violet light in the treatment of rickets, tuberculosis and some skin diseases. The money will be used for building and equipping a laboratory on Huntington Avenue adjacent to the biophysical laboratory.

AT the University of Minnesota the corner-stone has been laid for an institute for cancer research, to be erected at a cost of \$250,000.

THE United States forestry department intends to purchase 2,000 acres of burnt over plains lands in Michigan for a reforestation project. Norway pine is to be planted.

AT the autumn meeting of the Institute of Metals, the president, Professor T. Turner, announced that a donation of £1,000 had been made by an unnamed friend of the institute to meet the needs of the increasing membership. The council will consider its use as the basis of an endowment fund.

SCHOOLS of forestry are to be established at the University Colleges of Auckland and Canterbury by the New Zealand government, which will make a grant of £1,000 a year, with an additional £600 towards the cost of initial equipment.

A NEW research farm of 350 acres at Wrea Head, near Scarborough, has been placed at the disposal of the University of Leeds by Mrs. Ellis, widow of the late Hon. John E. Ellis. The farm is being used for carrying on experiments in milk production.

THE British government has decided to provide a further sum of £500,000 for agricultural education and research in addition to the funds already available for that general object, amounting to £1,000,000, under the Corn Production Acts and about £400,000 per annum from other government funds. It has been arranged that this new money will be paid over to the Development Fund by the treasury as required, and that it may be looked upon as provided for use during the next five years. The ministry is framing proposals for various schemes to be assisted from this new money. Already certain awards of grants in aid of research into specific agricultural problems have been made by the ministry for the academic year 1924-25.

A SUM of 55,000 francs has been received by the Brussels University Library from the Professor Léon Stiénon Commemoration Fund. The income will be devoted to the purchase of the principal medical periodicals.

THE Geological Survey, Department of the Interior, as a part of its work of determining the location and extent of the natural resources of the country, has

made a survey of Yampa River from Craig, Colo., to its junction with Green River, near the Colorado-Utah boundary, a distance of about 130 miles. A report has been prepared on the possibility of developing power and storing water on this stretch of the river. No power is now being developed in this stretch and, owing to the shortness of the growing season and the poor facilities for transportation, little agriculture is practiced in this region. Although the river is capable of furnishing a large amount of power, there is no market for such power at present, nor are the prospects good for a market in the near future. If, however, a demand should be created by the electrification of railroads or by the construction of a super-power system connecting several units of power with an established market, the development of power on this river would be profitable.

BUILDINGS have been completed and the required equipment obtained for the scientific investigation of distemper in dogs. Situated in England at the farm premises of the National Institute for Medical Research, near Mill Hill, the designing of the dog kennels and runs of the hospital for infected dogs and of their equipment, and the work of obtaining and managing a stock of dogs suitable for the necessary experimental work have been in the hands of Professor Buxton, working in cooperation with Major G. W. Dunkin, who has now taken his place as superintendent at the Medical Research Council's Field Laboratory. The special studies of "filterable viruses" associated with distemper have been entrusted to Dr. W. E. Gye and Dr. P. P. Laidlaw, members of the scientific staff of the Medical Research Council, with the cooperation in particular technical directions of Dr. C. C. Dobell, Dr. J. E. Barnard and others. The statistical investigation of selected outbreaks of distemper occurring in different parts of the country is being carried out under the advice of Dr. John Brownlee, of the staff of the Medical Research Council, and Dr. Major Greenwood, of the Ministry of Health.

EXTENSIVE investigations of engineering problems affecting public utilities are to be carried out by the engineering experiment station of the University of Illinois in cooperation with a utilities research committee representing several of the largest utility companies operating in Illinois, according to an announcement by W. L. Abbott, chairman of the committee and chief operating engineer of the Commonwealth Edison Company. The committee is to furnish \$25,000 a year for two years, and the university will furnish scientists, laboratories and equipment. Investigations on the fatigue of structural parts will include studies of the wear on axles, fans and other moving parts. Experiments with porcelain will be carried on with a view to increasing the efficiency of insu-

lators. Refractories for water-gas furnaces will be investigated and studies of boiler-feed-water treatment will include an examination of the effect of various waters on the structural part of boilers.

ACCORDING to *Nature*, the Ramsay Memorial Fellowship trustees have made the following awards of new fellowships for the session 1924-25, the place at which the award is tenable following the name of the fellow in each case: British Fellowship of £300 to Mr. S. W. Saunders, University College, London; Glasgow fellowship of £300 to Mr. A. Robertson, University of Manchester; Danish fellowship of £229 to Mr. K. J. Pederson, University of Bristol. The following fellowships have been renewed: Dr. S. Coffey (British fellowship), University College, London; Dr. A. Titley (British fellowship), University of Oxford; Mr. Thomas S. Stevens (Glasgow fellowship), University of Oxford; Dr. Miguel Crespi (Spanish fellowship), University College, London; Dr. J. Kalf (Netherlands fellowship), University of Manchester; Dr. H. Weiss (French fellowship), Davy-Faraday Laboratory, Royal Institution; Dr. E. Boomer (Canadian fellowship), University of Cambridge. Sir Robert Robertson has been appointed a member of the Ramsay Memorial Advisory Council in succession to the late Sir James Dobbie.

THE *Journal* of the American Medical Association states that the Clinical Bureau of Information of the New York Academy of Medicine has been collecting data from hospitals and clinics of Greater New York for a booklet for the guidance of physicians interested in the local facilities for postgraduate clinical study. The bureau has also taken over and is expanding the work started years ago by the New York Association for the Development of Postgraduate Medical Education. It plans to collect information with reference to opportunities for clinical postgraduate work in large cities of the United States, England and on the continent. Several of the foreign clinics are now regularly supplying the bureau with data as to their schedule of work and facilities.

As a needful step at this time in the program of the Lake States Forest Experiment Station for the study of tree planting, the station will start a careful survey of all the planting work that has been done in past years in Minnesota, Wisconsin and Michigan. It is felt that while the task of restoring to usefulness the 20,000,000 acres of denuded forest land in these three states is yet in its infancy, enough has already been done by various federal, state and private agencies to form a basis of very profitable study. The survey as planned will help to determine the extent to which forest planting is advisable and how it can profitably be increased. The plantations to be examined include those of the United States Forest

Service on the Michigan and Minnesota National Forests, and similar plantations by the Michigan Department of Conservation, the Michigan Agricultural College, the Forest School of the University of Michigan, the Minnesota State Forest Service, the University of Minnesota and the Wisconsin Conservation Commission.

UNIVERSITY AND EDUCATIONAL NOTES

A GIFT of \$475,000 to the division of chemistry of Harvard University has been made by the family of the late E. C. Converse, of New York. The money will be used for the erection of a chemical research laboratory at the university.

YALE UNIVERSITY will receive \$152,679 from the estate of Dr. Plimmon H. Dudley, consulting engineer of New York, to establish what is to be known as the Dudley professorship of railroad engineering.

BEQUESTS contained in the will of Charlotte J. Hill-
yer, of Hartford, Connecticut, include the following: \$25,000 to Yale University; \$50,000 to Trinity College; \$5,000 to Roanoke College, of Salem, Va.; \$2,500 to Elmira College for Women, Elmira, N. Y., and \$65,000 to Smith College.

By the will of H. L. Bridgman, regent of the University of the State of New York, who died recently, the university will receive his estate, estimated at about \$15,000, after the death of Mrs. Bridgman.

PROFESSOR ALEXANDER FINDLEY, professor of chemistry at the University of Aberdeen, Scotland, has accepted an appointment as acting professor of chemistry at Stanford University during the winter, spring and summer quarters of the present academic year.

DR. FRANK E. ROSS, who has been for the past nine years a member of the staff of the research laboratory of the Eastman Kodak Company at Rochester, has been appointed associate professor of practical astronomy in the University of Chicago.

DR. NATHANIEL ALLISON, of St. Louis, has been appointed professor of orthopedic surgery at the Harvard Medical School and Dr. David Harold Walker, Boston, Augustus Lecompte professor of otology.

E. F. PHILLIPS, apiculturist of the Bureau of Entomology, has accepted a position as professor of apiculture in the New York State College of Agriculture at Cornell University. J. I. Hambleton, of the Bureau of Entomology, will have charge of the bee culture investigations of the bureau.

PROFESSOR LEON E. JENKS, who was recently in charge of the course in general chemistry during the

absence of Professor Frederick E. Breithut at the College of the City of New York, has been appointed professor of chemistry at the Worcester Polytechnic Institute. Dr. M. E. Smith, chief analyst in the food and drug laboratory of the Dominion Department of Health at Halifax, has been appointed instructor in the same department.

DR. J. V. HOFMANN, for eleven years director of the Wind River Forest Experiment Station of the United States Forest Service which serves the Pacific northwest region, has resigned to accept the professorship of silviculture and forest management at the Pennsylvania State Forest School at Mont Alto, Pennsylvania.

DR. EUGENE R. WHITMORE, professor of bacteriology and preventive medicine in George Washington University Medical School, has been appointed professor of bacteriology and pathology in Georgetown University School of Medicine and pathologist to Georgetown University Hospital, Washington, D. C.

PROFESSOR THOMAS M. BAINS, JR., head of the department of mining and metallurgy of the University of Illinois, has gone to the Colorado School of Mines in Denver.

THE leave of absence granted to Dr. W. Lee Lewis by Northwestern University has been extended to September, 1925. During this period his courses will be given by Professor C. D. Hurd, formerly of the University of Illinois.

DR. F. R. GRIFFITH, JR., has been promoted to associate professor of physiology and Dr. E. C. Albritton has been appointed associate in physiology at the University of Buffalo.

DR. SAUL B. ARENSON, instructor in the department of chemistry at the University of Nebraska, has joined the faculty of chemical engineering at the University of Cincinnati.

DISCUSSION AND CORRESPONDENCE

THE GENUS CAMBARUS IN CALIFORNIA

A FEW months ago I received from Miss Pirie Davidson information concerning the presence of crayfishes in a stream near Pasadena, California. In response to my request several specimens representing both sexes were sent me for identification. An examination of the gill formula and other characters showed that the crayfishes belonged to the genus *Cambarus*, and the species was later identified by means of the excellent description and figures in Hagen's "Monograph of the North American Astacidae" as *Cambarus clarkii* Girard.

This is the first time that a species of *Cambarus*