

the report says, is largely due to the activities of the research boards of the department in the coordination of work required by various government departments. It is manifest that this work must be expected to develop, and that the needs are most economically met by extending the facilities for research in existing institutions. The more important items of work recently undertaken by the laboratory for the coordinating research boards include a research on motor springs, and spring materials generally, which is of great importance to the War Office and other departments in respect of transport problems; an investigation into the properties of constructional materials at high temperatures; a research on big-end bearings desired by the Air Ministry, which is of general importance for high-speed engine design; experiments to determine a suitable yellow glass for railway signal lights, as well as colored glasses for ships and aircraft lights; and an investigation relating to pivots and jewels as employed in a variety of instruments of importance for naval, military and other purposes.

In the Radiology Division, a large number of tests have been made on X-ray protective materials, and a considerable amount of time has been devoted, as already mentioned, to the very important work of inspecting X-ray installations in hospitals. Good progress has nevertheless been made with a number of interesting researches, including an investigation into the scattering of gamma rays by matter, the excitation of X-ray bulbs by different high-tension generators, the relation between total and "local" ionization, the scattering of cathode particles when allowed to fall on different substances, and the structure of metallic crystals.

In the Optics Division, the main item of research for the year has been that connected with color standardization and spectrophotometry. Much attention has been directed to the problem of producing a satisfactory laboratory source of white light, for which a solution has not yet been found.

In the Photometry Division, the investigation into problems of illumination of buildings, originally undertaken for the Office of Works, has been extended to the study of daylight illumination, and much interesting work has been done. Experiments are in progress to determine the best arrangement of windows for one of the proposed galleries to be constructed in the new wing of the Tate Gallery.

EXPEDITION OF THE BISHOP MUSEUM

THE Bishop Museum will have at its disposal for the next two or three years the four-masted schooner *Kaimiloa* for research work in the South Seas. The boat will leave Honolulu on its first cruise about the middle of October. The first year's tentative schedule includes Malden, Starbuck, Tangareva, Rakahanga,

Manihiki, Pukapuka and Manua Islands, and if conditions permit considerable time will be spent in the Tuamotus.

On the initial cruise, six members of the museum staff will constitute the scientific personnel: Stanley C. Ball, curator of collections; Kenneth P. Emory, ethnologist; Charles H. Edmondson, zoologist; Armstrong Sperry, assistant ethnologist and artist; Gerrit P. Wilder, associate in botany; and Mrs. Wilder, interpreter. The scientists will be guests of the owners of the *Kaimiloa*, Mr. and Mrs. Med R. Kellum, who will accompany the cruise on some of its expeditions. The personnel of the later trips has not yet been selected.

The museum plans to study the out-of-the-way islands of the Pacific, making botanical, zoological and geographical studies, but giving particular attention to an ethnological study of the natives. It is hoped that relations may be established between the museum and the residents of the islands which will pave the way for a broad scientific survey in the near future, and lead to betterment of conditions under which the natives live.

The schooner has a length of 200 feet and a 38-foot beam. It has been remodelled to meet the needs of the scientists, and will carry a fully equipped laboratory, wireless apparatus, refrigerating plant, a library and spacious comfortable living quarters.

SCIENTIFIC NOTES AND NEWS

THE centenary celebration of the founding of the Franklin Institute and the inauguration exercises of the Bartol Research Foundation open on September 17 with an address of welcome by the mayor of Philadelphia, and addresses by Dr. Wm. E. L. Eglin, president of the institute, and Professor Elihu Thomson, honorary chairman of the celebration committee. The program, printed in *SCIENCE* for August 8, contains the names of a large number of scientific men who are to give addresses, including the following from abroad: Sir Ernest Rutherford, Sir William Bragg, Professor W. L. Bragg, Professor E. G. Coker, Professor F. G. Donnan, Sir Charles Parsons, Professor J. S. E. Townsend, Professor Charles Fabry, Professor F. Haber and Professor P. Zeeman.

DEAN HUGH MILLER, dean of engineering in George Washington University, has been elected to be secretary of the engineering section of the American Association for the Advancement of Science, to complete the present term. Mr. L. W. Wallace, who has been secretary of the section for several years, found it necessary to resign on account of other duties. Correspondence regarding the engineering section should be addressed to Dean Miller.

DR. SHIRO TASHIRO, associate professor of biochemistry at the University of Cincinnati College of Medicine, who was awarded the Gakushūin prize by the Imperial Academy of Arts and Sciences of Japan, has received from the Imperial University of Kioto the honorary degree of doctor of medical science.

THE British Institution of Mechanical Engineers has conferred an honorary membership upon President Fred R. Low, of the American Society of Mechanical Engineers.

THE University of Wales has conferred the honorary degree of M.Sc. on Dr. H. Drinkwater, of Wrexham, in recognition of his research in genetics and on the British flora, and that of LL.D. on Sir Donald MacAlister, Bt., on account of his distinguished services to medical science and as a university administrator.

DR. E. E. FREE, formerly of the United States Department of Agriculture, has assumed the editorship in chief of *The Scientific American*, filling the vacancy created by the resignation of Austin C. Lescarbourea.

DR. CHARLES W. GOULD, of New York, has been elected president of the National Eugenics Research Association.

THE astronomer-royal, Sir Frank Dyson, has been appointed president of the Greenwich branch of the League of Nations Union, in succession to Sir Charles Stone.

GEORGE L. CLARK, formerly a National Research Fellow at Harvard University, has joined the staff of the research laboratory of applied chemistry at the Massachusetts Institute of Technology.

HAROLD ALMERT, consulting engineer, of Chicago, a charter member of the American Association of Engineers, was elected president of that organization at the recent annual meeting in San Francisco.

H. C. BERGER, formerly of the research staff, Bureau of Mines, has been appointed research chemist at the Gloucester plant of the Armstrong Cork & Insulation Co.

DR. DAVID FRASER HARRIS, professor of physiology at the Dalhousie University Faculty of Medicine, Halifax, Nova Scotia, has resigned.

J. H. MAIDEN, who for nearly twenty years has been government botanist of New South Wales and director of the Sydney Botanic Gardens, has retired under the age-limit.

ACCORDING to wireless messages the schooner *Bowdoin*, bearing the explorer Donald B. MacMillan and his party, arrived at Godthaab, Greenland, on August 28, with all on board well.

PROFESSOR HERBERT FREUNDLICH, of the Kaiser

Wilhelm Institute, will be the foreign guest of honor at the third Colloid Symposium which is to be held at the University of Minnesota next June.

DR. VINCENT G. BABECKI, who will teach in the new school of public health being organized at Warsaw, and Dr. C. F. Chellappah, medical officer of health of the Government Sanitation Department of Ceylon, are studying public health administration in the United States as guests of the International Health Board.

BARON RODOLPHE DE SCHAUENSSE, Professor Joseph McGoldrick, Henry Norris and Alec Besso, returned on September 1 from Brazil, where they have been collecting birds and other animals under the auspices of the Philadelphia Zoological Society and the Academy of Natural Sciences of Philadelphia.

THE dedication and unveiling of a monument in memory of Dr. William Thomas Green Morton, who was the first to administer ether for a surgical operation publicly at the Massachusetts General Hospital, October 16, 1846, took place at Charlton, Massachusetts, his birthplace, on September 1.

A COMMITTEE has been formed in Chicago, with Dr. Frank Billings as chairman, charged with the collection of funds for the erection of a monument to Pasteur. The monument, to be executed by the French sculptor, M. Léon Hermant, will be constructed of stone or bronze at a cost of \$30,000.

A MONUMENT in honor of the late Professor Grasset, the well known neurologist of Montpelier, was recently unveiled at Lamalou-les-Bains.

WILLIAM DANIEL HURD, for ten years director of extension service at the Massachusetts Agricultural College and western manager of the soil improvement committee of the National Fertilizer Association, has died in his forty-ninth year.

DR. ROBERT KIDSON, F.R.S., the distinguished British paleobotanist, died on July 13 at the age of seventy-two years.

DR. R. H. JUDE, for more than thirty years in charge of the mathematical and physical department of Rutherford College, England, has died, aged seventy-one years.

PROFESSOR P. NATORP, emeritus professor of philosophy in the University of Marburg, author of "The Logical Foundations of the Exact Sciences," and leader of the neo-Kantian school, has died, aged seventy years.

DR. ALOIS MRÁZEK, professor of zoology in the Charles (Bohemian) University of Prague, died on November 26, 1923, aged fifty-six years.

PROFESSOR ALBERT HESSE, German chemist and for

over twenty years editor of the *Chemische Zentralblatt*, died on May 10, aged fifty-seven years.

PROFESSOR LUZZATTO, reader in microscopy and biochemistry in the University of Ferrara, Italy, died on July 13 at the age of fifty years.

DR. M. PALAGYI, formerly professor of biology and natural philosophy in the University of Klausenburg and later professor at Budapest, has died, at the age of sixty-four years.

THE centennial of Charcot coincides with the twenty-fifth anniversary of the founding of the French Société de neurologie, and is to be celebrated by the Réunion annuelle de neurologie, announced for June, 1925. According to the *Journal* of the American Medical Association, two topics have been selected for discussion: "Migraine," to be introduced by V. Christiansen, of Copenhagen, and Pasteur Vallery-Radot, of Paris, and "Charcot's Disease" by V. Neri, Bologna; Van Bogaert, Antwerp, and I. Bertrand, Paris.

THE second Spanish Congress of Medical Science will be held at Seville next October.

ACCORDING to the *British Medical Journal* the Dutch Medical Association, which consists of sixty divisions with a membership of 3,373, or about 90 per cent. of all the practitioners in Holland, has celebrated its diamond jubilee by the issue of a memorial volume containing papers on Dutch medicine before the foundation of the association, Dr. A. F. H. de Lespinasse (its founder), the origin of the association, and the history of its library. The volume contains numerous portraits of officers of the association, including Drs. Daniels, Donders, Pel, Snellen, Stokvis, Treub and Wenckebach, as well as full-page illustrations from some of the rarer works in the association library.

THE thirteenth annual safety congress of the National Safety Council will be held at Louisville, Ky., September 29 to October 3. The *Journal* of the American Medical Association states that among others, the following addresses will be presented: "Industrial health as a purchasable commodity," Dr. Clare F. N. Schram, medical director, Fairbanks Morse and Company, "Health education of our foreign families," Dr. Amos W. Colcord, Carnegie Steel Company, "How to make a sanitary survey of an industrial plant," Dr. Charles L. Ferguson, Shelby Shoe Company, "Report of committee on benzol poisoning," Charles Edward A. Winslow, "Prevention of lead poisoning" (round table discussion), Dr. Wade Wright, assistant medical director, Metropolitan Life Insurance Company, and Frederick L. Hoffman, Babson Institute, Mass., "How a medical department may contribute to safety in the chemical industry," Dr.

Benjamin J. Slater, Eastman Kodak Company, Rochester, N. Y.

A PRIZE for the physiology and pathology of altitude has been founded by the Alpine Sanatorium of Semmering, Austria. According to *Nature*, one thousand gold krone are offered to the author of the best work accomplished or published in the last two years, which has extended our knowledge of the action of alpine climate on man. The prize is intended in the first instance for Austrians, but foreigners can also be considered if their work has been carried out in Austria.

UNIVERSITY AND EDUCATIONAL NOTES

By the will of J. J. Arakelyan various colleges in this country and Turkey will benefit as follows: Constantinople College, Turkey, \$10,000; Robert College, Turkey, \$10,000; American University of Beirut, Turkey, \$10,000; Berea College, \$10,000; Piedmont College, \$10,000; Gordon Bible College, \$10,000; president and fellows of Harvard, \$15,000; Antioch College, Ohio, \$10,000; Atlanta Theological Seminary, Georgia, \$5,000.

THREE thousand acres of land in Albania have been given to a new American college in that country by the Albanian Government, to be called the American-Albanian College of Agriculture and Trades. C. Telford Rickson has become president of the institution.

DR. KEZOZ-DOHI, of the Tokyo Imperial University, has contributed \$25,000 and his students and colleagues \$7,500 for the establishment of a dermatologic museum at the university to celebrate his twenty-fifth anniversary as professor of dermatology.

THE Bethlem Royal Hospital has been admitted as a school of the University of London in the faculty of medicine for the purpose of research in psychological medicine.

THE new pathology building of McGill University Faculty of Medicine, Montreal, will be officially opened on Founder's Day, October 6, in the presence of leading pathologists of Great Britain, Canada and the United States.

DR. HAWLEY O. TAYLOR, recently head of the electrical department of Franklin Union, Boston, Mass., and formerly consulting physicist, Bureau of Standards, Washington, D. C., has been appointed head of the physics department of John Brown University, Sulphur Springs, Arkansas, a new institution which opens its doors this autumn.

DR. EUGENE R. WHITMORE, professor of bacteriology and preventive medicine in George Washington Medical School, has been appointed professor of bac-