

quired by the museum is a sketch made for John Hunter representing a duck which had partially assumed the plumage of a drake, a subject in which he was greatly interested. Lastly, we may add that the executors of Dr. Robert Roxburgh have presented the original mechanical spray apparatus which Lord Lister employed in the Royal Infirmary, Edinburgh, and exhibited at the Plymouth meeting of the British Medical Association in 1871 during the course of his address in surgery. It had two nozzles attached to independent caoutchouc tubes, furnishing large clouds of spray, that could be directed, if necessary, to opposite sides of the part operated on. Dr Roxburgh was Lister's last house-surgeon at the Royal Infirmary. Lister went to King's College, London, to fill the chair of clinical surgery in succession to Sir William Fergusson in 1877.

THE MAYO FOUNDATION AND THE UNIVERSITY OF MINNESOTA

THE board of regents of the University of Minnesota have ratified by unanimous vote the permanent agreement making the Mayo Foundation at Rochester the absolute property of the university, to be used perpetually for higher medical education and research. Securities totaling \$1,650,345, representing the fortunes of Drs. William J. and Charles Mayo, were turned over to the university.

"We turn over to the regents the bulk of our savings of a generation as an outright gift," said Dr. William J. Mayo, who is a member of the board of regents, but who did not vote on the proposal. "The money came from the people, and we feel it should return to the people—a continuing fund that shall serve this state for generations to come."

Expenses of the foundation will be paid by the Drs. Mayo until a fund of \$2,000,000 has accumulated. Thereafter the income from the fund will maintain it.

The foundation has been affiliated with the university for two years, which was agreed upon as a trial period. Under the final agreement the headquarters of the foundation can be moved from Rochester to another point in the state after twenty-eight years. Ten per cent. of the yearly income may be expended

outside the state and another ten per cent. may be used to investigate epidemics inside and outside the state.

It was announced that one of the Mayos would go to France with recruits next year and that they would take turns there until the end of the war.

SCIENTIFIC NOTES AND NEWS

M. PAUL PAINLEVÉ has been chosen to be premier of the French Republic. M. Painlevé has been professor of mathematics in the University of Paris and of mechanics at the Paris Polytechnic School.

M. G. FAYET, assistant director of the Nice Observatory, has been appointed director in succession to the late General Bassot.

Dr. R. W. WOOD, professor of physics in the Johns Hopkins University, is now in France engaged in scientific research in co-operation with members of the Paris Academy of Sciences. Dr. Wood left about three weeks ago, following the receipt of a cablegram from Premier Ribot offering him the tentative ranking of major in the French army.

Dr. RAYMOND PEARL, biologist and head of the department of biology of the Maine Agricultural Experiment Station, has been granted leave of absence from that institution for the duration of the war, to take charge of the statistical department of the United States Food Administration. He left the experiment station for Washington early in June, accompanied by Dr. Frank M. Surface, biologist of the Maine Station, who was also granted leave of absence for the same work. The following are associated, for the duration of the war, with Dr. Pearl in the statistical work of the Food Administration:

Dr. H. S. Jennings, The Johns Hopkins University.
Dr. W. E. Kellicott, Goucher College.
Dr. H. R. Willard, University of Maine.
Mr. John Rice Miner, Maine Agricultural Experiment Station.

Dr. A. W. DOX, for the past seven years chief of the section of chemistry of the Iowa Agricultural Experiment Station, has been granted leave of absence to accept a commis-

sion as captain in the food division of the Sanitary Corps of the National Army.

DR. FRANK C. GEPHART, chemist of the Russell Sage Institute of Pathology, has received a commission as captain in the Sanitary Corps, United States National Army, with headquarters at the Surgeon General's office, Washington, D. C.

DR. H. R. GLASCOCK has resigned from the professorship of biology at De Pauw University and will engage in service with the Medical Corps.

THE War Department has refused to accept the resignation of Dr. James W. Inches, health officer of Detroit, from the Detroit College of Medicine and Surgery Base Hospital No. 36, in order to allow him to accept an appointment by the American Red Cross as one of the fifteen commissioned specialists to study conditions abroad.

B. K. COGHLAN has resigned as associate professor of highway engineering at the Agricultural and Mechanical College of Texas. He is captain in the Engineer Officers' Reserve Corps and has been ordered to Ft. Leavenworth. E. O. FRANCISCO, who was assistant professor of civil engineering at the college during the last session, has been commissioned a second lieutenant in the Engineer Officers' Reserve Corps and has also been ordered to Ft. Leavenworth.

DR. JAMES D. MADDRILL, of the Travelers Insurance Company, has become actuary of the bureau of efficiency and economy at Washington. Dr. Maddrill has been in charge of the International Geodetic Observatory at Ukiah, Calif., and instructor in insurance mathematics at the University of California. His position at Washington will call for the preparation of a plan for pensioning all the civil employees of the government, numbering more than 300,000, and for other calculations of an actuarial and statistical nature.

DR. LEWIS R. HARRIS has been appointed director of the Bureau of Preventable Diseases of the New York City Health Department to succeed Dr. Bertram Waters, who has resigned

from the Department of Health to resume his private practise.

MR. L. E. WARREN, for eight years associate chemist in the chemical laboratory of the American Medical Association, has resigned his position to take charge of the research laboratories of the New York plant of Wm. R. Warner & Co.

DR. MAURICE G. MEHL, former head of the department of geology and director of the school of engineering and geology at the University of Oklahoma, has given up his work in that institution and will for the present give his time to a study of the oil and gas conditions of Oklahoma and Kansas.

PROFESSOR JUNIUS HENDERSON, of the University of Colorado, has recently returned from an expedition to northern Wyoming. The collections obtained consist principally of land shells and fossils.

PROFESSOR C. C. NUTTING has recently returned from Barbados and other West Indian Islands, where he has been looking over the ground in preparation for a party of zoologists who propose to visit that region next spring. This expedition will be under the auspices of the graduate college of the State University of Iowa, and will consist of instructors and graduate students in zoology; and the plan is to select some suitable point as a base of operations for the exploration and study of typical coral reefs. Dredging will be carried on, probably to a depth of two hundred fathoms, and a zoological laboratory will be established on shore. In his preliminary trip Professor Nutting visited the Islands of St. Thomas, St. Croix, St. Kitts, Antigua, Dominica, Martinique, St. Lucia and Barbados. The proposed expedition will probably make either Barbados or Antigua the base for their operations.

THE Norwegian explorer, Roald Amundsen, is at present preparing an Arctic expedition, which will start next March or April. A new expedition ship has been built, replete with every modern requirement in the way of technical equipment. Amundsen intends to take an aeroplane on board to be used for reconnoitering in the Arctic regions.

LECTURERS before the graduate summer quarter in medicine of the University of Illinois included Dr. Sidney I. Kornhauser, assistant professor of zoology in the Northwestern University, on "Sex determination and the nature of secondary sexual characteristics"; Dr. Reuben M. Strong, associate professor of anatomy in the Vanderbilt University, on "Adaptation in bone architecture"; Dr. Orville H. Brown, of Phoenix, Arizona, on "Asthma," and Dr. Addison Gulick, assistant professor of physiology in the University of Missouri, on "Over-feeding and the calorie problem in human metabolism."

WE learn from *Nature* that the fifth annual meeting of the Indian Science Congress will be held in Lahore on January 9 to 12 next, under the presidency of Dr. G. T. Walker, F.R.S., Director-General of Observatories. The sectional presidents will be: Dr. L. Coleman (Agriculture), Dr. Wali Mahomed (Physics and Mathematics), Dr. G. J. Fowler (Chemistry), Dr. Choudhuri (Zoology and Ethnology), Mr. R. S. Hole (Botany), Mr. E. S. Pinfold (Geology). Dr. J. L. Simonsen, of the Presidency College, Madras, is the honorary secretary for the meeting.

SECOND LIEUT. EDWARD OSLER, R.A., only son of Sir William Osler, died in England on August 31. He was wounded recently while on active duty in France, and had been taken to England for treatment.

PROFESSOR S. B. KELLEHER, Erasmus Smith professor of mathematics in the University of Dublin, died on August 18.

It is reported from London that A. Chester Beatty, a Columbia alumnus, has offered his London house as an American Officers' Hospital under the supervision of the Columbia Hospital Unit. The Columbia Unit is under the direction of Dr. George E. Brewer, of the College of Physicians and Surgeons and the Presbyterian Hospital. The unit is now in England. It is also stated that American medical officers will take charge of the military hospitals at Manchester, Salford, Liverpool, Leeds, Birmingham, and Cardiff, and the

civil medical practitioners at present in charge of those hospitals will be informed that their services are no longer required. It is understood that the reason for the change is that the services of the civilian doctors are required for the needs of the population, who have been inadequately served, owing to the attendance of so many physicians at the military hospitals.

A CHEMICAL INDUSTRIES BUREAU is in course of formation in Sweden, the object of which will be to bring together the Swedish chemical industrial interests.

THE Tootal Broadhurst Lee Company of Great Britain announces that "assured of the importance of research and education in the struggle for the world's trade, the directors have decided to set aside £10,000 a year for five years for this purpose." The provisional committee on research and education for the cotton industry will, at the close of the current holiday season, issue a prospectus of the new government-incepted and aided organization. This definite industrial research federation of the cotton trade will be followed by the establishment of institutes and laboratories. A provisional committee to organize textile research associations in the woollen trade has been formed.

THE *Proceedings* of the Nineteenth International Congress of Americanists, held at Washington, December 27-31, 1915, has just made its appearance. It is a handsome royal octavo volume of 717 pages, with many illustrations, and in addition to the proceedings of the congress includes ninety articles on American archeology, ethnology, folklore and tradition, history, linguistics, and physical anthropology. The work was prepared by Dr. A. Hrdlička, of the United States National Museum, who was general secretary of the congress, and edited by Mr. F. W. Hodge, of the Bureau of American Ethnology.

By the will of Julian A. Hellman, a residuary fund, which may amount to \$100,000, is created to be used by Mount Sinai Hospital for the purpose of cancer research work.

FREE public lectures of the New York Botanical Garden are being delivered in the Lecture Hall of the Museum Building of the Garden, Bronx Park, on Saturday afternoons, at four o'clock, as follows:

September 1. "Collecting fungi in the Catskills," by Dr. W. A. Merrill.

September 8. "The origin and history of soils," by Dr. A. Hollick.

September 15. "Growing fresh vegetables in the back yard," by Mr. H. G. Parsons.

September 22. "Some botanical features of northern Cape Breton," by Dr. G. E. Nichols.

(Exhibition of Dahlias, September 22 and 23)

September 29. "Growing nut trees," by Dr. W. C. Deming.

October 6. "Autumn coloration," by Dr. A. B. Stout.

October 13. "The relation of forests to water supply," by Dr. G. C. Fisher.

(Catskill Aqueduct Celebration Lecture)

October 20. "Fall planting and winter protection," by Mr. G. V. Nash.

THE Paris Academy of Sciences has decided to establish a National Physical and Mechanical Laboratory for the purpose of scientific research, directed in a marked degree to the benefit and use of the industries. The laboratory will be controlled by a council, of which half the members will be nominated by the academy, one fourth by the state department, and the remainder by the chief industrial associations. The executive control will be in the hands of a small technical committee. Existing laboratories engaged in similar work will be affiliated with the National Laboratory, and will work in close relationship with it. Substantial funds are to be provided for working expenses and for the assistance of the affiliated institutions.

At the request of the government, the council of the British Medical Association has submitted the following plan for the creation of the Ministry of Health: "That a ministry of health should be created to take over from existing government departments such duties as are concerned with the health of the community, and to deal with those duties only; that the administrative functions of the min-

istry should be carried out by a board presided over by a minister of cabinet rank; that the country be divided into suitable administrative areas under local administrative health centers consisting of representatives (a) of the rating authorities; (b) of the education authorities; (c) of the persons contributing to a scheme of health insurance (including employers of labor); (d) the medical profession; (e) public hospitals; (f) dentists; (g) pharmacists, and (h) nurses; that the principal medical officers of each center should be two, of equal status, one representing the clinical side (chief clinical officer) and the other the preventive side of medicine (medical officer of health); that for each area, hospitals, clinics or treatment centers should be recognized or established at which persons entitled to treatment under the public scheme should be able to obtain institutional, consultative or specialist services on the recommendation of their medical attendant." The meeting passed a resolution by an overwhelming majority in favor of the appointment of a ministry of health.

UNIVERSITY AND EDUCATIONAL NEWS

BROWN UNIVERSITY receives \$100,000 for a teachers' fund and \$4,000 for the purchase of volumes of American poetry by the will of the late Samuel C. Eastman, of Concord, N. H. The Concord Public Library is given \$2,000, the New Hampshire Historical Society \$4,000, and \$3,000 will go to charity. One half the residue of the estate is willed to Brown University, one fourth to the Concord Public Library, and one fourth to the New Hampshire Historical Society.

THE University of Maine and Bates and Colby Colleges have postponed their opening for about a month to allow students to continue their work on farms and in industries.

PROFESSOR WILLIAM A. SCHAPER, of the department of political science of the University of Minnesota, has been dismissed, following an investigation of the attitude on the war of