

the Secretary of Agriculture to stamp out the foot-and-mouth disease and other contagious diseases of animals which may appear. The appropriations for the experiment stations in Hawaii and Porto Rico are increased to \$15,000, making them uniform with the appropriation for stations in other states and territories, and \$5,000 is appropriated for taking up the farmers' institute work with a view to assisting the organizations in the different states and territories and making them more effective means for the dissemination of the results of the work of the department and of the agricultural experiment stations. A farmers institute specialist, who has had long experience in this line of educational work, has been appointed upon the staff of the Office of Experiment Stations, and will take up the new enterprise in April. The fund for the purchase of seeds for congressional distribution is increased by \$20,000, being now \$290,000, but an additional \$10,000 is allowed to be expended out of this fund for the seed and plant introduction from foreign countries, making the fund for that purpose \$30,000.

The items carried by the act for the various bureaus and divisions are as follows: Office of the Secretary, \$74,600; Weather Bureau, \$1,248,520; Bureau of Animal Industry, \$1,287,380; emergency appropriation for foot-and-mouth disease, \$500,000; agricultural experiment stations and Office of Experiment Stations (including irrigation investigations and nutrition investigation), \$895,000; Bureau of Plant Industry, \$674,930 (increase of \$62,200); Bureau of Forestry, \$350,000 (increase of \$58,140); Bureau of Soils, \$212,480 (increase of \$42,800); Bureau of Chemistry, \$85,300 (increase of \$15,500); Bureau of Statistics, \$156,660 (increase of \$15,500); Division of Entomology, \$77,450 (increase of \$10,000); Division of Biological Survey, \$51,850 (increase of \$6,000); Division of Publications, \$229,320 (\$105,000 of which is to be used for the preparation and printing of Farmers' Bulletins); Division of Foreign Markets, \$16,000; Public Road Inquiries, \$35,000; Library, \$20,000; Division of Accounts, \$24,350; contingent expenses, \$37,000; Museum, \$2,260.

This statement does not include the funds available for printing the publications of the department, which are carried by another appropriation.

Congress also gave authority for the erection of suitable buildings for the department, to cost not exceeding \$1,500,000, and \$250,000 was appropriated for the work to be done on these buildings during the coming year.

The total appropriations made by the Fifty-seventh Congress for the department aggregate \$12,005,133.80.

#### SCIENTIFIC NOTES AND NEWS.

THE American Museum of Natural History announces the appointment of Dr. Livingston Farrand, of Columbia University, as assistant curator of ethnology, and of Professor William Morton Wheeler, now of the University of Texas, as curator of invertebrate zoology.

PROFESSOR ANDREW C. McLAUGHLIN, who has filled the chair of American history at the University of Michigan since 1891, has been selected by the trustees of the Carnegie Institution to organize a bureau of historical research and to direct its investigations. Professor McLaughlin has been given a leave of absence from the University of Michigan for the coming college year in order that he may take up this new work. The larger part of the investigations will be carried on in connection with the government archives at Washington.

THE daily papers state that Professor Raphael Pumpelly, of Newport, R. I., has gone to Turkistan to make explorations under the auspices of the Carnegie Institution.

DR. WILHELM BAUERS, of the Royal Ethnological Museum, Berlin, is at present at Mexico studying the native tribes.

PROFESSOR VOLNEY M. SPALDING, head of the botanical department of the University of Michigan, has been granted leave of absence by the board of regents for the next academic year. He will devote the time largely to studies of plant distribution, visiting various European collections and traveling elsewhere.

IN harmony with the invitation received from the German government, the Secretary

of State, acting on the nomination of the Secretary of Agriculture, has issued the necessary credentials appointing Dr. H. W. Wiley, chief of the Bureau of Chemistry, U. S. Department of Agriculture, the official representative of the United States at the Fifth International Congress of Applied Chemistry, to be held at Berlin on June 8, 1903. Dr. Wiley has acted in this capacity at each of the four preceding congresses and his wide acquaintance with European men of science, as well as his international reputation as a chemist, fit him preeminently to discharge the obligations of this post with honor to the United States. The details of organization of this congress are to be found in *SCIENCE* for February 20, on page 315.

It is expected that Dr. Walter Nernst, professor of electrochemistry at the University at Göttingen, will visit the United States this month.

THE Bessemer gold medal of the Iron and Steel Institute of Great Britain has been awarded to Sir James Kitson, M.P., past-president, in recognition of his great services to the iron and steel industry of Great Britain. The presentation of the medal will be made by Mr. Andrew Carnegie at the annual meeting on May 7.

PROFESSOR WOODHEAD and Dr. Anningson have been appointed representatives of Cambridge University at the congress of the Royal Institute of Public Health to be held at Liverpool in July next.

MR. WILLIAM WEBER COBLENTZ, graduate scholar in physics, at Cornell University, has been appointed to a research assistantship by the Carnegie Institution. Mr. Coblentz will continue his investigations, already well advanced, of absorption spectra in the infra-red. The work will be done in the Physical Laboratory of Cornell University.

DR. F. S. WRINCH, at present demonstrator in experimental psychology at Princeton University, has been appointed to a research assistantship in psychology by the Carnegie Institution.

SEBASTIAN ALBRECHT, graduate student in the University of Wisconsin, has been ap-

pointed to a fellowship in astronomy at the Lick Observatory.

THE coming commencement season will complete the twenty-fifth year of President G. Stanley Hall's philosophical doctorate, taken at Harvard in 1878. It has seemed to a number of his colleagues and former students that this occasion should not be allowed to pass unnoticed, but on the contrary, should be marked in a manner commensurate, in some degree, with President Hall's service to psychology and its teaching in this country. The form which will accomplish this end in a way most agreeable to President Hall himself is the publication of a worthy *Festschrift* in his honor. Professor E. C. Sanford, of Clark University, and Professor E. B. Titchener, of Cornell University, as co-editors with President Hall of the *American Journal of Psychology*, which he founded in 1887, have, therefore, decided to invite contributions from a number of his colleagues and the more actively productive of his past students, and will see the collection of papers through the press.

MR. G. T. WALKER, a recent senior wrangler at Cambridge, has been appointed head of the Indian Meteorological Department.

DR. JAMES J. DOBBIE, professor of chemistry and geology in the University College of North Wales, has been appointed director of the Museum of Science and Art, Edinburgh, in succession to F. Grant Ogilvie, Esq., who has been appointed a principal assistant secretary under the Board of Education at South Kensington.

At the monthly general meeting of the London Zoological Society on March 20, Mr. W. L. Sclater was officially proposed as secretary in succession to his father, Dr. Sclater, who retired in January. At the instance of those opposed to Mr. Sclater's election a meeting of the fellows was held on March 20, at which Mr. Chalmers Mitchell was nominated for secretary. The election will take place on April 29.

DR. DAVID STARR JORDAN, of Stanford University, gave the principal address at the exercises commemorating the thirty-fourth anniversary of the University of California, his

subject being 'American University Tendencies.'

DR. F. A. WOLFF, of the National Bureau of Standards, Washington, will discuss 'Modern Methods of Electrical Standardizing' before the Franklin Institute of Philadelphia on March 26.

THE winter term public meeting of the Ohio State University Chapter of the Society of the Sigma Xi was addressed this year by Professor C. B. Morrey, his subject being the 'Uses of Bacteria.' Of especial interest was the elaboration of the author's theory of the bacterial formation of coal and natural gas.

MR. CHARLES A. DAVIS, instructor in forestry, in the University of Michigan, has been engaged to prepare a map showing the distribution of forest trees and soil relations for the Ann Arbor sheet of the topographic atlas soon to be published by the United States Geological Survey.

CABLEGRAMS to the daily papers from New Zealand report the return of the *Morning* which joined the *Discovery* on January 23. The latter ship wintered further south than any previous expedition and Captain Scott with a sledging party penetrated one hundred miles further south than any previous explorer. An extensive mountainous region was discovered, which it is supposed may extend to the South Pole. Two other exploring parties are also said to have made important geographical discoveries. Large collections and numerous observations have also been made. The *Discovery* is expected to return in August.

It is stated in the London *Times* that M. Bialynitsky-Biroulin, the zoologist, who was a member of Baron Toll's Arctic expedition, has given the Irkutsk branch of the Russian Imperial Geographical Society the following information regarding Baron Toll, who left for Siberia in June last to explore Bennett Land and has not been heard of since. M. Biroulin says that he left Baron Toll at Neupoloch Bay on May 11 and proceeded to New Siberia, where he arrived a fortnight later. He left the island on December 4. Before his departure he erected a hut as a depository

for the flesh of thirty reindeer and other preserved food. Baron Toll, M. Biroulin states, left the yacht *Sarja* on June 9 on the islands of the north coast and proceeded to Cape Wyssoki, where he arrived on July 10. Here he deposited a statement to the effect that all was well with him and his followers and that the dogs were in good condition, having had sufficient reindeer meat. Baron Toll started for Bennett Land on July 13 with three sleighs and 45 dogs. If a passage through the ice to the *Sarja* should not be open, M. Biroulin said that Baron Toll intended wintering in Bennett Land.

THE Rev. Dr. John Peate, of Greenville, Pa., known for the reflecting telescopic lenses that he has made while engaged in other work, died on March 24, at the age of eighty-two years.

THE death is announced of M. Gustav Radde, director of the Museum at Tiflis, known for his studies of the natural history of the southwestern Caucasian region.

M. VORONINE, professor of botany in the University of St. Petersburg, has died at the age of seventy-five years.

A TELEGRAM has been received at the Harvard College Observatory from Professor Kreutz, at Kiel, stating that a new star, which is possibly a variable, has been found by Professor Turner, at Oxford. The magnitude was 8.0 on March 16. This object is confirmed on a Harvard photograph taken on March 6, 1903. Invisible on plate and certainly fainter than tenth magnitude on March 1, 1903. A telegram from Professor Geo. E. Hale, at Yerkes Observatory, states that Turner's new star is in the following position. March 27.75 G. M. T., R. A.  $6^h 37^m 49^s.0$  Dec.  $+ 30^\circ 02' 38''$ . Its color is red and its spectrum shows bright lines or bands.

THE American Social Science Association will meet at Boston on May 14, 15 and 16.

#### UNIVERSITY AND EDUCATIONAL NEWS.

THE late Ario Wentworth, of Salem, Mass., has made numerous public bequests, including \$100,000 to the Massachusetts Institute of Technology, \$100,000 to the Massachusetts