

in 1903 two candidates earned the master's degree, and one, the doctor's degree, in Washington University, in which one candidate for the former and three for the latter are now enrolled with majors in botany.

Details are given of the workings of the school of gardening, the organization of the office staff, and the gardening operations for the past year; and the report closes with an account of the special testamentary provisions of the founder of the garden, among them the recent banquet of the trustees, at which several hundred of the scientific men of the country were guests during the last convocation week.

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*THE DEPARTMENT OF ECONOMICS AND  
SOCIOLOGY OF THE CARNEGIE  
INSTITUTION.\**

THE Department of Economics and Sociology of the Carnegie Institution was by the action of the executive committee placed wholly in charge of Carroll D. Wright, commissioner of labor. The first great work to which this department is to address itself is the preparation of an economic history of the United States, embracing eleven subjects:

(1) *Population and Immigration*.—To this branch Commissioner Wright has assigned Professor Walter Willcox, of Cornell University. Professor Willcox will not treat his subject merely on its statistical side, but will deal broadly with such questions as the influence of the movement of population and immigration on the economic development of the country, one of the principal features to be considered being the routes that immigration has taken at various stages.

(2) *Agriculture and Forestry*, including public land and irrigation interests. To this work Mr. Wright has assigned President Kenyon L. Butterfield, of the Rhode Island Mechanical and Agricultural College.

(3) *Mining*.—This is committed to Edward W. Parker, of the Geological Survey.

(4) *Manufactures*.—This subject will be handled by S. N. D. North, director of the United States Census.

(5) *Transportation* will be considered by Dr. W. Z. Ripley, of Harvard University.

(6) *Domestic and Foreign Commerce*, including fisheries, is in the hands of Professor Emory R. Johnson, of Pennsylvania University.

(7) *Money and Banking* will be considered by Dr. David R. Dewey, of the Massachusetts Institute of Technology.

(8) *The Labor Movement* has been reserved by Commissioner Wright for himself.

(9) *Industrial Organization* is the subject assigned to Professor J. W. Jenks, of Cornell University.

(10) *Social Legislation* will be treated by Professor Henry W. Farnam, of Yale University. He will include in his study provident institutions, poor laws, and kindred topics.

(11) *Federal and State Finance*, including taxation. The authorship of this treatise the department is not yet ready to announce.

The collaborators will utilize all available material that has been published mostly in fragmentary ways, as well as all material that can be secured from original sources by special research. For this purpose, graduate students and others interested in special lines will be employed. It is impossible to state how long it will take to finish the work, but it will be pushed with all the force compatible with accuracy and completeness. The allotment of money for the first year is \$30,000.

As has been said, Commissioner Wright has been put in charge of the entire enterprise, and during the present year he will have the direction of the work of the staff from the office of his department at Washington. After this year, when he will have retired from the Department of Labor, he will direct the work from his new seat of activity in Worcester, Mass.

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*SCIENTIFIC NOTES AND NEWS.*

THE twenty-fifth anniversary of the conferring of the doctorate on Dr. Wilhelm Ostwald was celebrated at Leipzig on December 19. A *Festschrift* has been prepared by his pupils.

PROFESSOR F. W. PUTNAM has resigned his position in the American Museum of Natural History which he has held for nearly ten

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\* From the New York *Evening Post*.

years. He has been granted leave of absence from Harvard University for three months this winter, and will spend this time in directing the work of the Department of Anthropology and the Anthropological Museum of the University of California. Professor Putnam has been appointed chairman of the Department of Anthropology in the International Congress of Arts and Science at the St. Louis Exposition.

PROFESSOR S. P. LANGLEY has been appointed by the International Meteorological Committee a member of the commission (mentioned on page 658 of Vol. XVIII.) to consider the study of the relations of solar physics to meteorology.

THE board of visitors to the Naval Academy includes President Henry S. Pritchett, of the Massachusetts Institute of Technology, and Professor Ira N. Hollis, of Harvard University.

PROFESSOR F. E. LLOYD, of Teachers College, Columbia University, has received a grant from the Botanical Society of America, to carry on researches at the Desert Botanical Laboratory of the Carnegie Institution at Tucson, Arizona.

DR. NICHOLAS SENN sailed from San Francisco on January 7 for Tahiti, where he will join a commission appointed by the French government to investigate the diseases of the island.

DRS. E. L. TYSER and W. R. Brinckerhoff, of the Harvard Medical School, have been sent on a commission to the Philippines to study smallpox and other contagious diseases.

MR. WILLIAM BARNUM, formerly of the Fish Commission, has been appointed chief clerk of the Carnegie Institution.

PROFESSOR F. H. KING, of the Bureau of Soils, U. S. Department of Agriculture, has resigned. He has been connected with the Bureau of Soils since November, 1901, in charge of the work in soil management.

MR. CHARLES HENRY THOMPSON, assistant in botany at Stanford University, has been appointed to take charge of the Department of Succulent Plants at the Missouri Botanical Garden.

DR. WILLIAM OSLER, professor of medicine at the Johns Hopkins University, will give this year the Ingersoll lecture at Harvard University, his subject being 'Science and Immortality.'

THE chapter of the Sigma Xi at the Ohio State University is giving a series of lectures this winter. The first was by Professor A. D. Cole on 'Why Light is believed to be an Electrical Phenomenon'; the second lecture was delivered January 25 by Dr. Victor C. Vaughan, of the University of Michigan, on 'Immunity from Disease'; the third lecture will be given by Professor F. L. Landacre.

PROFESSOR W. B. SCOTT, Blair professor of paleontology at Princeton University, has begun a course of sixteen lectures at the Wagner Institute, Philadelphia.

THE death is announced of Dr. Georg von reception on January 13 to celebrate the return of some of the members of the *Gauss* South Polar Expedition. Count Posadowsky, minister of the interior, delivered an address of welcome. Dr. von Drygalski then gave a lecture recounting his experiences, and was afterwards presented with a gold medal.

THE prize of the Swedish Medical Association has been awarded to Professor M. G. Blix, of Stockholm, for his work on the temperature of the muscles.

THE death is announced of Dr. Georg von Liebig, docent in climatology at the University of Munich. He was a son of Justus von Liebig.

A CIVIL service examination will be held on March 2 and 3 for the position of miscellaneous computer of the U. S. Naval Observatory.

THE sixth International Congress of Physiology will be held at Brussels from August 30 to September 3. Communications should be addressed to Dr. Slosse, Institute Solvay, Parc Leopold, Brussels, Belgium.

GOVERNOR ODELL has signed a bill authorizing the consolidation of the New York State Medical Society and the New York State Medical Association.

THE Madrid correspondent of the *London Times* writes that in anticipation of the total eclipse of the sun of August, 1905, the papers are beginning to urge the government to include in next year's estimates an item providing for a scientific mission of Spanish astronomers to be sent abroad, in order to study in foreign observatories the latest methods of investigating the phenomenon. For the eclipse of 1900 the Cortes voted 190,000 pesetas, but the measure was taken so late that the money was spent at a loss. It may be mentioned that the zone of about 200 kilometers covered by the eclipse of 1905 traverses Spain from Galicia and Asturias to Valencia and Castellon. The northern coast between Coruña and San Vicente de la Barquera and the eastern from Valencia to the Gulf of San Jorge will be included in the zone of total obscurity. Observers at Ferrol, Lugo, Oviédo, Gijon, Léon, Palencia, Burgos, Soria, Teruel and Saragossa will have some four minutes in which to make their notes. Madrid lies to the south of the zone of total eclipse.

#### UNIVERSITY AND EDUCATIONAL NEWS.

It was announced at the meeting of the trustees of the Catholic University of America on January 28 that the annual collection authorized for the university will amount to \$100,000, and that this sum might be expected in each of the next nine years.

TEACHERS COLLEGE, Columbia University, has received a gift of land valued at \$50,000 from the heirs of William Earl Dodge.

MR. HENRY PHIPPS has given \$20,000 to the Johns Hopkins Hospital to establish a clinic for consumptives.

HARVARD UNIVERSITY has received \$6,000 for scholarships from the estate of Daniel A. Buckley.

THE finance committee of Liverpool has recommended a grant of \$50,000 to Liverpool University for the current year.

A FELLOWSHIP in dermatology has been endowed at Liverpool University by Dr. Stopford Taylor.

THE Association of American Universities will hold its next meeting at Yale University

on February 18, 19 and 20. The program includes a discussion of uniformity of university statistics opened by Dr. Rudolf Tombo, Jr., of Columbia University; a discussion of the question 'Are the degrees of Bachelor of Science, Bachelor of Philosophy and Bachelor of Letters to be preserved or to be merged in the degree of Bachelor of Arts?' by Professor Richard Hudson, of the University of Michigan and by Professor Paul Shorey, of the University of Chicago, and a discussion on the administration, financial support and circulation of university publications, including doctor's dissertations and scientific journals and the general transaction of the business of the university, by President Ira Remsen, of the Johns Hopkins University, and Professor Charles Montague Bakewell, of the University of California. Papers will also be presented on the actual and the proper lines of distinction between college and university work by President Hadley of Yale University, and President Jordan of Stanford University. The admission of Brown University and New York University as members of the association will be considered.

DR. CHARLES S. HOWE will be inaugurated president of the Case School of Applied Science on May 11.

MR. W. D. GIBBS, director of the Agricultural Experiment Station of the University of Texas, has been appointed president of the New Hampshire College of Agriculture and the Mechanic Arts.

DR. H. D. BERGEY has been appointed assistant professor of bacteriology at the University of Pennsylvania; Drs. Leo Loeb, William T. Cummins and Henry R. Alburger have been appointed assistant demonstrators of pathology; Dr. H. C. Richards has been appointed assistant professor of physics.

DR. OSKAR ECKSTEIN, instructor in organic chemistry in Tufts College, has been appointed lecturer in chemistry in the University of Chicago.

MR. CHRISTOPHER ROYCE has been appointed instructor in mathematics at New York University on account of the illness of Professor Pomeroy Ladue.