

his manuscript notes, with the references to the places of the plants in his herbarium. Then there is a copy of the second edition of Robert Plot's 'Natural History of Oxford-

data in regard to six of the older private universities in the eastern states, six western state universities and six foreign universities, which is here reproduced:

OLDER PRIVATE UNIVERSITIES IN EASTERN STATES.

Name.	Date of Founding.	Number in Instructing Staff.	Number of Students 1904.	Annual Budget 1904.	Annual Cost to University Per Student.	Annual Cost to Student.
Harvard .....	1636	525	5,143	\$1,572,540 <sup>1</sup>	\$306	\$150
Columbia .....	1754	551	5,017	1,438,638	270	\$150 to \$250
Yale .....	1716	343	3,138	800,000	255	100 " 150
Pennsylvania .....	1791	325	2,838	685,000	241	150 " 200
Princeton .....	1756	109	1,374	460,863	335	150 " 160
Brown .....	1764	85	988	180,000	192	150
Total .....		1,938	18,498	\$5,137,041		

WESTERN STATE UNIVERSITIES.

Michigan .....	1837	292	4,136	\$746,000	\$180	\$10 to \$45
Illinois .....	1868	402	3,594	800,000	223	free
Wisconsin .....	1848	227	3,342	700,000	209	free
Minnesota .....	1868	290	3,895	497,000 <sup>2</sup>	128	\$20 to \$100
California .....	1868	283	3,400	945,000	279	e
Nebraska .....	1869	193	2,513	419,750	167	ree
Total .....		1,687	20,880	\$4,107,750		

FOREIGN UNIVERSITIES.

Berlin .....	1807	504	13,782	\$880,500	\$ 64	small fees
Leipsic .....	1409	216	4,253	716,000	170	" "
Paris .....	1100	420	12,985	934,000	72	" "
Vienna .....	1384	431	6,205	464,000	76	" "
Bonn .....	1818	177	2,970	361,000	123	" "
Edinburgh .....	1583	205	2,971	469,000	158	\$10 to \$20 a course.
Total .....		1,953	43,166	\$3,824,500		

shire' (Oxford, 1705), the first edition of which appeared in 1677. This work was the forerunner of the numerous 'County Histories' that have been subsequently issued.

Finally, attention may be drawn to the earliest figure and description of that flightless bird, the solitaire, in a book by the French traveler François Leguat, printed at London in 1708. The solitaire formerly inhabited the island of Rodriguez, and became extinct about the end of the eighteenth century.

STATISTICS OF EASTERN, STATE AND FOREIGN UNIVERSITIES.

In an address before the University of Michigan, printed in the *Atlantic Monthly*, Dr. Henry S. Pritchett showed a table giving

THE EIGHTEENTH SEASON OF THE MARINE BIOLOGICAL LABORATORY. 1905.

THE regular season for investigators opened June 1 and continued through most of September. During this period there were in attendance 71 investigators, of whom 63 occupied private rooms with an average period of attendance of about six weeks to two months.

Students receiving instruction were in session from June 28 to August 9, and the total attendance was 57, a much smaller number than in the years previous to 1903, owing to the raising of the standard of admission at that time. The work of collection of material was again under the charge of the curator of

<sup>1</sup> Omitting \$875,575 in special gifts.

<sup>2</sup> Omitting \$400,000 for buildings.

the supply department, Mr. G. M. Gray, who had eight assistants during the busiest part of the season. Each investigator was supplied with his material on demand and the service gave great satisfaction.

For some years the necessity of a larger steamer has been felt and this year the laboratory chartered the steamer *Genevieve*, about 100 feet over all. The range of collecting expeditions was thus increased very materially and the work facilitated in many other ways. Another welcome addition to the equipment was a gasoline launch assigned to the supply department.

In the fall of 1904 the laboratory renovated and remodelled the interior of the old stone building known as the 'candle factory' and equipped it with heating apparatus and running salt water. It now forms the headquarters of the supply department, and two investigators' rooms are available for use at all seasons of the year.

The annual meeting of the trustees and corporation was held on August 8. Reports of the assistant director and treasurer showed a very satisfactory condition of the laboratory as to equipment and finances. Messrs. S. F. Clark, Charles Coolidge, C. R. Crane, T. H. Morgan, L. L. Nunn, John C. Phillips, Erwin F. Smith and E. B. Wilson were reelected trustees to serve until 1909, and Messrs. A. P. Mathews and H. S. Jennings were elected to fill vacancies in the board. Seventeen new members were elected to the corporation.

The following is the list of investigators who worked at the laboratory during the season:

#### I. ZOOLOGY.

##### 1. *Occupying Rooms.*

Budington, Robert A., instructor in zoology, Wesleyan University, Conn.

Clapp, Cornelia M., professor of zoology, Mt. Holyoke College, South Hadley, Mass.

Colton, Harold Sellers, graduate student, University of Pennsylvania, Philadelphia, Pa.

Conklin, E. G., professor of zoology, University of Pennsylvania, Philadelphia, Pa.

Drew, Gilman A., professor of biology, University of Maine, Orono, Me.

Fielde, Adele M., New York, N. Y.

Foot, Katherine, 80 Madison Ave., New York, N. Y.

Gardiner, E. G., 131 Mt. Vernon St., Boston, Mass.

Glaser, Otto Charles, instructor, University of Michigan, Ann Arbor, Mich.

Goldfarb, Abraham J., graduate student, Columbia University, New York, N. Y.

Hargitt, C. W., professor of zoology, Syracuse University, Syracuse, N. Y.

Hargitt, George Thomas, instructor in biology, Syracuse High School, Syracuse, N. Y.

Jennings, H. S., assistant professor of zoology, University of Pennsylvania, Philadelphia, Pa.

King, Helen Dean, graduate student, Bryn Mawr College, Bryn Mawr, Pa.

Lambert, Avery E., instructor in biology, State Normal School, Framingham, Mass.

Lefevre, George, professor of zoology, University of Missouri, Columbia, Mo.

Lewis, Warren Harmon, associate professor of anatomy, Johns Hopkins University, Baltimore, Md.

Lillie, Frank R., associate professor of embryology, University of Chicago, Chicago, Ill.

Loeb, Leo, assistant professor of experimental pathology, University of Pennsylvania, Philadelphia, Pa.

Lombard, Guy Davenport, assistant instructor in histology, Cornell University, Ithaca, N. Y.

Lommen, Christian P., professor of biology, University of South Dakota, Vermilion, South Dakota.

McClellan, John H., graduate student, Harvard College, Cambridge, Mass.

McGregor, James Howard, lecturer in vertebrate zoology, Columbia University, New York, N. Y.

Morgan, T. H., professor of experimental zoology, Columbia University, New York, N. Y.

Morgan, Mrs. T. H., New York, N. Y.

Murbach, Louis, head of department of biology, Central High School, Detroit, Mich.

Putnam, Margaret, student, Bryn Mawr College, Bryn Mawr, Pa.

Reed, Margaret, graduate student, Columbia University, New York, N. Y.

Retzer, Robert, assistant in anatomy, Johns Hopkins University, Baltimore, Md.

Richardson, Harriet, Washington, D. C.

Shippen, L. P., graduate student, University of Pennsylvania, Philadelphia, Pa.

Snowden, Louise Hortense, graduate student, University of Pennsylvania, Philadelphia, Pa.

Smith, Grant, teacher of biology, Chicago Normal School, Chicago, Ill.

Stevens, Nettie Maria, Bryn Mawr College, Bryn Mawr, Pa.

Strobell, Ella G., New York, N. Y.

Strong, Oliver S., instructor in histology, Columbia University, New York, N. Y.

Strong, R. M., associate in zoology, University of Chicago, Chicago, Ill.

Tennent, David Hilt, associate in biology, Bryn Mawr College, Bryn Mawr, Pa.

Treadwell, Aaron L., professor of biology, Vassar College, Poughkeepsie, N. Y.

Wallace, Louise Baird, associate professor of zoology, Mt. Holyoke College.

Whitney, David Day, graduate student, Columbia University, New York, N. Y.

Wilson, Edmund B., professor of zoology, Columbia University, New York, N. Y.

Woodruff, Lorande Loss, instructor in biology, Williams College, Williamstown, Mass.

## II. OCCUPYING TABLES.

Allabach, Lulu F., department of zoology and geography, State Normal School, Lockhaven, Pa.

Buckingham, Edith N., Radcliffe College, Cambridge, Mass.

Gregory, Louise H., graduate student at Columbia University, New York, N. Y.

Newman, Horatio H., instructor in zoology, University of Michigan, Ann Arbor, Mich.

O'Neil, Elizabeth Breeding, instructor, Mt. Holyoke College, South Hadley, Mass.

Surface, Frank Macy, fellow in zoology, University of Pennsylvania.

Terry, Oliver P., assistant in physiology, St. Louis University Medical Department, St. Louis, Mo.

Worsham, Ernest Lee, tutor in biology, University of Georgia, Athens, Ga.

## 2. *Physiology.*

Brown, Harry Orville, assistant professor of pharmacology, St. Louis University.

Carlson, Anton J., assistant professor of comparative physiology, University of Chicago, Chicago, Ill.

Hyde, Ida H., professor of physiology, University of Kansas, Lawrence, Kansas.

Lillie, Ralph S., instructor in physiology, Harvard Medical School, Boston, Mass.

Lyon, Elias Potter, professor of physiology, St. Louis University, St. Louis, Mo.

Mathews, A. P., associate professor of physiological chemistry, University of Chicago, Chicago, Ill.

Meigs, Edward B., assistant in physiology, University of Pennsylvania, Philadelphia, Pa.

Packard, Wales H., assistant professor of biology, Bradley Polytechnic Institute, Peoria, Ill.

Sollmann, Torald, professor of pharmacology, Western Reserve University Medical Department, Cleveland, Ohio.

Spaulding, Edward G., preceptor in philosophy, Princeton University, Princeton, N. J.

## 3. *Botany.*

Andrews, Frank Marion, assistant professor of botany, Indiana University, Bloomington, Ind.

Dacy, Alice Evelyn, South Boston, Mass.

Davis, Bradley Moore, assistant professor of botany, University of Chicago, Chicago, Ill.

MacRae, Lillian J., teacher, South Boston High School, South Boston, Mass.

Stickney, Malcolm E., assistant professor of botany, Denison University, Granville, Ohio.

Wolfe, Jas. J., adjunct professor of biology, Trinity College, Durham, N. C.

Wylie, Robert Bradford, professor of biology, Morning College, Sioux City, Iowa.

Yamanouchi, Shigeo, fellow of the University of Chicago, Chicago, Ill.

## SUMMARY—1905.

### *Students.*

Course in zoology.....	27
Course in life histories.....	14
Course in physiology.....	7
Course in botany.....	9
	— 57

### *Investigators.*

<i>Zoology:</i>	
Occupying rooms .....	43
Occupying tables .....	8
	— 51
<i>Physiology:</i>	
Occupying rooms .....	10
Occupying tables .....	2
	— 12
<i>Botany:</i>	
Occupying rooms .....	8
	— 8
Total of students and investigators.....	128
Deduct two names mentioned twice.....	2
	— 126

### *Number of Institutions Represented.*

By investigators .....	35
By students .....	36
	— 71

*Colleges, Universities and Institutions*

*Represented.*

By investigators .....	28
By students .....	26
—	54

*Schools and Academies Represented.*

By investigators .....	7
By students .....	10
—	17

RESEARCH SEMINARS AT THE MARINE BIOLOGICAL  
LABORATORY. SEASON OF 1905.

July 11. Dr. A. J. Carlson, 'Conduction in Nerves.'

July 13. Dr. A. P. Mathews, 'Precipitation of Colloids by Electrolytes.'

July 18. Dr. L. L. Woodruff, 'Life-Histories of Hypotrichous Ciliates.'

July 20. Dr. W. H. Lewis, 'Experiments on Correlative Embryology.'

July 25. Dr. Torald Sollmann, 'Filtration Phenomena in Dead Kidneys.'

July 28. Dr. C. W. Hargitt, 'Variations in the Genus *Aurelia*.'

August 2. Dr. H. S. Jennings, 'Behavior of Sea Anemones.'

August 8. Dr. O. C. Glaser, 'Amitosis in *Fasciolaria* Embryos'; 'Origin of Nettle Cells in Nudibranchs.'

August 10. Dr. Leo Loeb, 'The Growth of Tumors.'

August 15. Dr. E. P. Lyon, 'Geotropism in *Paramecium*.'

August 17. Dr. E. G. Spaulding, 'Experimental Determination of Energy in the Segmentation of the Sea-Urchin's Egg.'

August 22. Mr. J. F. McClendon, 'Some Effects of Pressure on the Segmentation of the Eggs of Copepods.'

Dr. Louis Murbach, 'Marginal Bodies of *Gonionemus*.'

FRANK R. LILLIE.

THE NEW ORLEANS MEETING OF THE  
AMERICAN ASSOCIATION FOR THE  
ADVANCEMENT OF SCIENCE.

THE permanent secretary of the association has received a certain number of letters from members who seem to have gained the impression that there is some doubt about the desirability of holding the meeting as announced in the city of New Orleans on account of the fact that there have been a num-

ber of cases of yellow fever in that city during the past few months. The permanent secretary has consulted members of the committee on the policy of the association and some of the leading members of the council and finds that the consensus of opinion is that the meeting should be held in New Orleans and that no change of plan should be considered. He has further corresponded with prominent yellow fever experts and sanitarians and has consulted the wishes of the people of New Orleans and the result is that it seems beyond all possible question that a meeting during convocation week in that city will be as safe as in any other city in the United States.

Surgeon-General Walter Wyman, of the Public Health and Marine Hospital Service, who has charge of the situation in New Orleans, assures the permanent secretary that there will not be the slightest danger in holding the meeting in New Orleans at the time specified. Such a thing as a case of yellow fever at that time is unprecedented and long before that time the last case will have received its final treatment.

Ex-Surgeon-General Sternberg, U. S. Army, a notable yellow fever expert, writes the permanent secretary under date of October 7, that the history of the prevalence of yellow fever in New Orleans makes it appear certain that there will be no danger to any one visiting that city at the time of the meeting of the American Association for the Advancement of Science, December 28, 1905.

President Craighead, of Tulane University, and the secretaries of the New Orleans Progressive Union, Board of Trade, Stock Exchange, Sugar and Rice Exchange, have all written letters voicing the same opinion and with enthusiastic cordiality renewing the invitation to the association to hold its meeting in New Orleans. It would have been a sore