Scott, George G.: The Science of Biology; from the author, Smith, Gilbert M.: five copies of Phytoplankton of the Inland Lakes of Wisconsin, part II, Desmidiacew; from Miss Alice W. Wilcox: House: Wild Flowers of New York (plates); from the author, Wilson, Edmund B.: The Cell in Development and Heredity; from the author, Wolback, S. B.: The Etiology and Pathology of Typhus; and from Woodruff, L. L.: Ward, Henshaw: Evolution for John Doe.

Priscilla B. Montgomery,

Librarian.

VI. THE REPORT OF THE DIRECTOR.

TO THE TRUSTEES OF THE MARINE BIOLOGICAL LABORATORY.

Gentlemen: I beg to submit herewith a report of the thirty-eighth session of the Marine Biological Laboratory for the year 1925.

I. The New Building.—The year 1925 was marked by the dedication and occupancy of the new building, planned for since 1919, as related in successive Annual Reports. A "plot" plan and floor plans of this building were published in the Annual Report for 1923 (BIOLOGICAL BULLETIN, Vol. 47, 1924, pp. 29–35) together with a brief description of the uses of the rooms. The photographs herewith reproduced show a view of the completed building from the harbor, a closer view of the main facade, a view of the rear from the "Eel Pond," and interiors of a private biological and a private biochemical laboratory. The building is beautiful externally, and thoroughly practical and complete, as well as beautiful, in its internal arrangement and appointments. Its use during the season of 1925 revealed no serious flaws or defects in either its arrangement or its appointments.

The style of architecture is the same as that of the Crane Building, but accentuated by the use of stone for the basement walls, by horizontal stone courses above the first and third stories and by the use of painted copper panels between the windows of the second and third stories which increases the columnar



Fig. 1. The New Building and Crane Building (on the right) from Great Harbor. Note the three-quarters buried power house in the center at the corner of the stone harbor wall, and the roof of the tank house above the corner of the New Building.



Fig. 2. A closer view of the main facade.



Fig. 3. Rear view of the New Building and the Crane Building (left wing) from the Eel Pond; wooden building of the Supply Department on the left. The auditorium projects from the interior angle.



Fig. 4. Interior of one of the private biological laboratories overlooking Great Harbor and Nonamessett Island. Cement salt water table on left and usual furnishings, but special apparatus (14 x 20 ft.).



Fig. 5. Interior of one of the private biochemical laboratories taken from the window end. Note chemical desk and hood in addition to the fittings of a biological laboratory (12 x 23 ft.).

effects of the intervening brickwork. The main facade (Fig. 2) with its three high arched door-ways in the center, its rounded brick columns, and pediment ornamented with an intricate original marine composition are especially noteworthy.

2. The Dedication Exercises were held July 3, 1925. They were attended by official delegates of the following former and present subscribing and cooperating Institutions and Organizations, as well as by members of the Laboratory and neighbors.

OFFICIAL DELEGATES.

The Academy of Natural Sciences of Philadelphia Agnes Scott College The Department of Agriculture, Washington, D. C. University of Alabama

The American Association of Anatomists

American Association for the Advancement of Science

The American Chemical Society The American Society of Biological Chemists

The American Society of Natu- Professor S. O. Mast ralists

The American Society of Zoölo-

Amherst College Antioch College Barnard College

Bermuda Biological Station for Research

The Biological Laboratory, Cold Spring Harbor, L. 1.

Boston Society of Natural History Boston University

Botanical Society of America

Bowdoin College Boyce Thompson Institute for Plant Research

Professor E. G. Conklin Professor C. E. McClung Miss Mary Stuart MacDougall Dr. E. D. Ball

President George H. Denny Professor Henry McE. Knower

Dr. J. McKeen Cattell

Dr. H. E. Howe Dr. Albert P. Matthews

Professor G. H. Parker

Professor Harold H. Plough Mr. Ondess L. Inman Professor Henry E. Crampton Professor W. J. V. Osterhout

Dr. Reginald G. Harris

Dr. Joseph A. Cushman Rev. Zerna Vane Arthur Professor B. M. Duggar Professor J. R. Schramm Professor Manton Copeland Dr. William Crocker

Bryn Mawr College Bureau of Fisheries, Washington, D. C.

Butler College
Carleton College
Carnegie Corporation
Carnegie Institution of Washing-

Carnegie Institution, Station for Experimental Evolution
The University of Chicago
University of Cincinnati
Clark University
The College of the City of New York
Columbia University

Constantinople Woman's College Cornell University University of Delaware, Women's College DePauw University Doane College

University of Georgia Goucher College Hamilton College Harvard University

Elmira College

Harvard University Medical School Haverford College Hood College Hope College Howard University

The Johns Hopkins University and the Johns Hopkins Medical School Dr. Franz Schrader Dr. Willis H. Rich

Dr. David Rioch Professor D. B. Young Professor T. H. Morgan Dr. A. F. Blakeslee

Dr. E. C. MacDowell

Professor Ralph S. Lillie
Dr. Edward F. Malone
Dr. William H. Cole
Assistant Professor Earl A.
Martin
Professor Gary N. Calkins
Professor Henry E. Crampton
Professor Thomas H. Morgan
Professor Edmund B. Wilson
Dr. Mary Mills Patrick
Professor Charles R. Stockhard
Miss Margaret Walton

Professor Walter Norton Hess Mrs. M. C. Bennett Miss Clara Dettmer Miss Elizabeth Humeston Dr. E. R. Clark Professor Clara L. Bacon Professor A. D. Morrill Professor W. J. V. Osterhout Professor George H. Parker Dr. A. C. Redfield

Mr. William A. Wolff
Dr. Mabel Bishop
Professor Samuel O. Mast
President J. Stanley Durkee
Dr. E. E. Just
Dr. Warren H. Lewis

Eli Lilly and Company
McGill University
Marietta College
University of Maryland
Massachusetts Institute of Technology

Mercer University
Miami University, Oxford, Ohio
University of Michigan
James Millikan University
Milwaukee-Downer College
University of Minnesota
The Missouri Botanical Garden
University of Missouri
The Mount Desert Island Bio-

logical Laboratory
Mount Holyoke College
National Research Council
The National Academy of
Sciences
The New York Academy of

Sciences
The University of North Carolina
Oberlin College

Ohio Wesleyan University Peabody Museum, Salem, Mass. University of Pennsylvania

University of Pennsylvania School of Medicine Pomona College Randolph-Macon College Rhode Island State College

Rutgers College Sheffield Scientific School, Yale University Shorter College Smithsonian Institution Stanford University Dr. G. H. A. Clowes Dr. I. Maclaren Thompson Professor H. R. Eggleston Professor P. W. Zimmerman Professor Robert T. Bigelow

Professor Gail L. Carver Dr. J. K. Breitenbecker Professor L. V. Heilbrunn Dr. H. P. Agersborg Dr. Mary Edith Pinney Dean Elias P. Lyon Dr. Benjamin M. Duggar Dr. Charles H. Philpott Dr. Ulric Dahlgren

Dr. Cornelia Clapp Dr. Maynard M. Metcalf Dr. Frank R. Lillie

Professor Henry E. Crampton

Dr. C. Dale Beers

Professor Robert A. Budington Professor Charles G. Rogers Professor E. G. Conklin Professor Edward S. Morse Professor Clarence Erwin McClung Professor Henry Cuthbert Bazett

Dr. Charles W. Metz President R. E. Blackwell Dr. H. W. Browning Dr. F. Bauer Dr. Walter T. Marvin Professor Ross G. Harrison

Dr. Ada R. Hall Dr. Austin H. Clark Mr. Charles Maurice Cram St. Louis University

Syracuse University
The Tulane University of Louisiana

Union College
Vassar College
University of Vermont
University of Virginia
University of Washington
Washington University
Washington and Lee University

Wesleyan University
The Western College for Women
Western Reserve University and

Adelbert College Whitman College Williams College The University of Wisconsin

The Wistar Institute of Anatomy

and Biology Yale University Professor Alphonse M. Schwitalla

Professor C. W. Hargitt Dr. Walter E. Garrey

Professor James Watt Mavor Professor A. L. Treadwell Dr. E. G. Spaulding Dr. Ivey Foreman Lewis Mr. Louis G. Seagrave Mr. Alfred M. Lucas

Professor W. D. Hoyt Professor Hubert B. Goodrich

Dr. Ruth Laura Phillips Professor Francis H. Herrick

Rt. Rev. Robert L. Paddock Professor James L. Kellogg Professor Charles E. Allen

Professor Leon J. Cole Dr. Milton J. Greenman

Professor Lorande L. Woodruff

Members of the Laboratory and many invited guests were also present and the large new auditorium was completely filled. The afternoon addresses according to the subjoined program have been published in *Science* (Vol. LXII., No. 1604, pages 271–280, Sept. 25, 1925). The Committee in Charge of the Exercises, under the able direction of Dr. H. E. Crampton, provided lunch and housing arrangements for delegates, and guides for inspection of the building, and arranged an afternoon tea and demonstrations of materials and experiments set up by workers at the Laboratory. The exercises were concluded by an evening lecture delivered by Professor W. J. V. Osterhout of Harvard University.

MARINE BIOLOGICAL LABORATORY.

WOODS HOLE, MASSACHUSETTS.

DEDICATION EXERCISES.

FRIDAY, JULY 3. 1925.

2 P.M. Daylight saving time. In the auditorium. Presiding Officer, THE HONORABLE CHARLES R. CRANE, President Board of Trustees.

Address of Welcome: Professor Frank R. Lillie, *Director*.

Address: Professor Edmund B. Wilson, Columbia University.

Address: "The Changing Face of Nature and of Man at Woods

Hole" by Professor Edwin G. Conking Princeton University.

Hole," by Professor Edwin G. Conklin, Princeton University.

4:00-6:00 P.M. Inspection of buildings and work. Afternoon tea will be served.

8:00 P.M. The first of the series of evening lectures will be delivered by Professor W. J. V. Osterhout, of Harvard University—Subject: "Absorption and Accumulation."

3. Report of the Building Committee (The Director, Assistant Director and Treasurer).—In the last Annual Report the estimates for construction of the new building and the sources of funds for the purposes were given. It is a source of gratification to the Committee that the building was completed and equipped for a sum of \$734,101.01 which is \$14,485.70 within the estimates of \$748,886.71. Ground was broken March, 20 1924 and the building practically fully equipped was ready for occupancy in June, 1925. In its final report presented to the Board of Trustees August 11, 1925 The Building Committee presented a summary of payments needed after July 1, 1925 as follows:

SUMMARY OF ADDITIONAL NEW BUILDING COSTS AFTER JULY 1, 1925.

Additional Amounts Needed.

a. Apparatus and Chemicals \$ 5,000.00	
b. To complete Machine Shop 600.00	
c. Additional items for completion of service	
and equipment 5,000.00	10,600.00
July 1, Cash in Building Fund	\$53,445.09 30,094.48
	\$23,350.61
Anticipated savings on contracts:	
Cleghorn Company\$817.00	
Cronin Company 925.00	1,742.00
August 3, Amount required from Friendship Fund	\$21,608.61

In this accounting a fund of \$10,600.00 was provided for minor items of completion. With this understanding the Committee proposed that their accounts be closed after the payment of the outstanding items noted above and that the Committee be discharged as soon as this is accomplished. The report was accepted by the Board of Trustees, and the Secretary was instructed to notify the Friendship Fund that the Marine Biological Laboratory would consider their pledge fulfilled by a total payment of \$221,608.61 instead of \$248,886.71 as originally estimated.

The subjoined analysis of the Building Fund Account was submitted by the Business Manager, Dec. 15, 1925.

Analysis.

MARINE BIOLOGICAL LABORATORY, BUILDING FUND ACCOUNT, DECEMBER 15, 1925.

DECEMBER 13, 1923.	
Cash Received to date:	
Rockefeller Foundation	\$500,000.00
Friendship Fund	221,608.61
Interest on bank deposits:	
December, 1924 \$ 8,721.67	
June, 1925	9,180.95
Donation, Frank R. Lillie	3,311.45 \$734,101.01
Payments as follows:	
Geo. A. Fuller Co., Gen. Contractor \$484,210.56	
C. H. Cronin, Inc., Plumbing 48,229.06	
Cleghorn Company, Heating 30,658.95	
Hixon Electric Co., Elec, work 66,555,36	

3,977.00 \$633,630.93

F. S. Payne Co., Elevator.....

Other Commissions: Supt. and Eng. Fees: Heating—Buerkel & Co Elec.—Hixon Electric	\$ 518.94			
Co	776.24	\$ 1,295.18		
Elec.—Hixon Electric Co. (By Dr. Lillie, 1923.) Heating—Buerkel & Co. (By Dr. Lillie,	\$ 1,990.51			
1923.)	1,320.94	3,311.45	4,606.63	
Supplementary Items:	Paid.	To complete.		
Apparatus	\$21,429.17	\$ 2,070.83	\$ 23,500.00	
Chemicals	1,474.84	25.16	1,500.00	
Crane Bldg. changes	6,205.16		6,205.16	
Furnishings	12,475.20		12,475.20	
Grading	1,889.75		1,889.75	
Machine Shop	3.999.72	500.28	4,500.00	
Sea water equipment	5,979.97		5,979.97	
Miscellaneous Johns-Manville, Inc.	1,844.75	4.734.36	6,579.11	
Auditorium ceiling	1,426.56	73.44	1,500.00	
	\$56,725.12		\$ 64,129.19	\$ 64,129.19

4. Special Scientific Equipment of the New Building.—Twenty-five thousand dollars was provided in the estimates for special scientific equipment, mostly movable apparatus, in addition to the apparatus already in possession of the Laboratory. The inventory value of the movable apparatus accordingly becomes well over \$30,000.00. There has been provided thus such a quantity and variety of instruments and other apparatus, much of it very delicate and costly, that a new service department of "Scientific Apparatus" has been created with Dr. Samuel E. Pond of the University of Pennsylvana as custodian. Dr. Pond also acted as purchasing agent for the new apparatus, and was able to get the maximum results from the expenditure of the new

funds. There were few demands for apparatus in the season of 1925 that could not be satisfied with that on hand; the machine shop operated in coöperation with the department of scientific apparatus in adapting instruments and making new ones. All appliances are fully catalogued and cross-referenced as to distribution in the various buildings and rooms and temporary loans.

The equipment of the machine shop was completed during the summer. This equipment is largely for metal work. It is proposed to install a bench and equipment with a trained operator for glass blowing which will permit some construction of glass apparatus and all necessary repairs. It is not intended to centralize all glass blowing here, but to provide for the more delicate and complicated pieces of work.

5. Attendance.—Reference is made to the list of Students and Investigators in attendance (pp. 43-51) and to the Tabular View of Attendance (p. 51). The number of students admitted was held to the usual quota, which necessitated refusing a considerable number of applicants; the laboratories in the old buildings were used for the work of the classes as before. The number of investigators was 208 which is 14 more than the previous year the largest attendance heretofore. This season the space was ample. The policy in assigning space was determined partly by the rates, but, for the rest, the better equipped and more commodious quarters of the New Building and the Crane Building were filled first both for the beginning investigators and the older ones. All of the space in the brick buildings was thus occupied, and it was remarkable how little unoccupied space was left even in the old buildings after the need for crowding ceased and each investigator was given ample quarters. The number of institutions represented by students was 65, by investigators 74, combined 112 with allowance for duplications.

The following foreign countries and institutions were represented: Brazil, H. Paul's Medical School; China, Peking University and Shanghai; Czecho-Slovakia, Charles University Prag; England, University College, London; Germany, Kaiser Wilhelm Institut Für Biologie; Holland, University of Leyden and de Hoogere Burgerschool, Amsterdam; Poland, Lemberg and Warsaw Universities, Roumania, Bucharest University; Russia,