LONG ISLAND BIOLOGICAL ASSOCIATION

ANNUAL REPORT OF THE BIOLOGICAL LABORATORY

COLD SPRING HARBOR LONG ISLAND, NEW YORK 1926

LONG ISLAND BIOLOGICAL ASSOCIATION INCORPORATED 1924

ANNUAL REPORT OF THE BIOLOGICAL LABORATORY FOUNDED 1890

THIRTY-SEVENTH YEAR

1926



General view of part of the Laboratory grounds and buildings and of Cold Spring Harbor, taken from Cannon Hill, a portion of the land recently acquired by the Long Island Biological Association

BOARD OF DIRECTORS

To serve until 1930:

George DraperPresbyterian Hospital
W. B. James
H. S. JenningsJohns Hopkins University
Mortimer L. Schiff
W. W. Swingle
Willis D. Wood

To serve until 1929:

C. B. DavenportCarnegie Institution of Washington. Secretary
Childs Frick
Henry Hicks
H. M. ParshleySmith College
Henry L. Stimson
Henry C. Taylor

To serve until 1928:

Oliver B. James	
Walter Jennings	
R. C. Leffingwell	Oyster Bay, N. Y.
T. H. Morgan	Columbia University
Charles R. Stockard	Cornell Medical College
T. S. Williams	

To serve until 1927:

Charles M. Bleecker	
Marshall Field	Huntington, N. Y. Vice President
Ross G. Harrison	Yale University
Arthur W. Page	.Cold Spring Harbor, N. Y. Treasurer
William K. Vanderbilt	
H. E. Walter	Brown University

R. G. HARRIS, Laboratory Director

^{*} Subsequent to December 14, 1926. † To December 14, 1926.

Members of the Long Island Biological Association

Founders:

Mrs. Eugene Blackford Marshall Field Dr. Walter B. James Walter Jennings Mortimer L. Schiff William K. Vanderbilt †Robert B. Woodward William J. Matheson

Patrons:

Frank L. Babbott
Mrs. Charles B. Davenport
Henry W. DeForest
Cleveland H. Dodge
Mrs. Leonard Elmhirst
W. E. Erhart
Edward Floyd-Jones
Childs Frick
Mrs. E. H. Harriman
†A. Augustus Healy
August Heckscher
Mrs. Walter Jennings
Mrs. Otto H. Kahn
R. C. Leffingwell

Mr. and Mrs. W. Lloyd-Smith J. P. Morgan Wm. H. Nichols, Jr. †Henry F. Noyes Arthur W. Page George D. Pratt †Cornelia Prime Oran W. Rice Howard C. Smith Louis C. Tiffany Wawepex Society Walter J. Whipple Timothy S. Williams Mrs. Timothy S. Williams

Sustaining Members:

Helen T. Albro Eleanor Allen Grace Allen Justin M. Andrews Mary Auten Frank L. Babbott Max S. Bart Mary Beard Frederick Bernheim George R. Biecher Ernest W. Blanchard Charles M. Bleecker Mrs. T. Bache Bleecker, Jr. Edward C. Blum Helen Blust Rosina C. Boardman R. Hattie Bolton Mrs. Rudyerd Boulton Floyd C. Bratt Henry Brody Leland A. Brown Lucile C. Brown John T. Buchholz † Deceased.

L. Dudley Bumpus Vincent G. Burns Esther F. Byrnes Dorothy W. Caldwell J. Lincoln Cartledge Edward L. Caum Mary Chantler Helen A. Choate J. Loomis Christian Edward D. Churchill Henry S. Conrad Paul D. Cravath Charles B. Davenport Frances G. Davenport Pierrepont Davenport F. Trubee Davison Maude Dawson Henry W. DeForest Johnston DeForest Robert W. DeForest Fairman R. Dick Abigail C. Dimon Russell A. Dixon

Harper B. Dodd Agnes Doetsch Henry P. Dorman Frank N. Doubledav Edith M. Douglas Mrs. George T. Douglas Marin S. Dunn S. A. Everett Calvin F. Fencil Lydia M. Fletcher Rolfe Flovd George S. Franklin Florence M. Frost Henry J. Fry Wendell Gingrich Arcadia Giura Robert A. Goodell Mvron Gordon R. H. Grav Susan A. Green N. M. Grier T. Hale Ham Benjamin R. Harris D. S. Hartline H. Keffer Hartline Mrs. Glenn G. Haves O. M. Helff Saul Heller †Annie P. Henchman Mvra Herman Pierre Hernandez Henry Hicks M. Catherine Hinchey Anton G. Hodenpyl Gail H. Holliday Grace L. Holmes Davenport Hooker Mrs. S. C. W. Hoppin Perry S. Horenstein Clarence A. Horn Marian E. Hubbard Harrison R. Hunt Robert C. Hutchinson Everett C. Jessup Opalrae Johnson Florence L. Jones Richard H. Jones Sarah Elizabeth Jones Celia Kaufman E. Corinne Keaty Clyde E. Keeler Emma L. Kemp † Deceased.

Margaret Kesler Clara Ketcham Mrs. C. D. Kirkpatrick Beatrice Klingensmith Marie B. Knauz Martin J. Knorr Sidney I. Kornhauser Eleanor Kress Anna Lansing D. W. LaRue R. C. Leffingwell Milton I. Levine Gerald M. Livingston Christina B. Locke Elizabeth M. Lord William S. Lord Carolyn E. MacDonald E. Carleton MacDowell Josephine C. Marshall Marion I. Martin Ralph E. Martin H. S. Mayerson E. Lenore Meid Marie C. Menefee Valy Menkin Charles W. Metz Florence Middleton Frances H. Miller Ogden L. Mills George D. Morgan Mattie Beth Morgan †Daniel P. Morse Everett C. Myers Louise A. Nelson Graham Netting J. S. Nicholas Acosta Nichols Mrs. George Nichols Isaac Oeland C. Mervin Palmer Quentin Pan H. M. Parshley William H. Parsons James E. Peabody Mrs. Wm. Pfieffer Hugh L. Porter Eugene L. Power H. S. Pratt Frank L. Rainey John E. Ranken Walter M. Rankin Helen Reed

Ida L. Revelev †Dorothy F. Rice Edward L. Rice Kenneth S. Rice Aute Richards John K. Roosevelt W. Emlen Roosevelt Walter I. Salmon Sophie Satin Asa A. Schaeffer Mary-Light Schaeffer E. L. Schaffer Fanny J. Schwartz Donald Scott Ida Sitler William Smith Margaret A. Spencer Phyllis Stanley Joseph H. Stickler Helen Stobbe Harley L. Stowell Stella G. Streeter F. H. Sweet W. W. Swingle Eugene Swope George F. Sykes Masaharu Tange

Mrs. F. C. Thomas E. N. Transeau Daniel V. Troppoli Isabel H. Tuthill Victor C. Twitty Gertrude R. Twomey Emilia Vicari Nelle E. Waggener Roy A. Waggener H. E. Walter Myrtle H. Waterfall Betty P. Watt Helen M. Wells David D. Whitney Alice W. Wilcox Mrs. Joseph H. Willetts C. D. Williams Mrs. T. S. Williams J. Walter Wilson Mrs. O. K. Wing Henrietta M. Wood Willis D. Wood Louise Wright Sewall Wright Myrtle E. Wylie Paul B. Yates Raymond L. Zwemer

The following, though not members of the Long Island Biological Association, have contributed to the Land and Endowment Fund:

E. LeGrand Beers John Chase Albert De Silver J. G. Dettmer William G. Low John Hill Morgan Acosta Nichols, Jr. George Nichols C. J. Peabody James H. Post †W. A. Putnam Mrs. W. E. Roosevelt

Herman Stutzer

Members of the Women's Auxiliary Board

President, Mrs. Walter Jennings Vice-President, Mrs. Childs Frick Secretary, Mrs. Archibald B. Roosevelt Treasurer, Mrs. George Nichols Chairman House Committee, Mrs. Hamilton Hadden

Mrs. Arthur Ballantine Mrs. A. F. Blakeslee Miss Rosina C. Boardman Mrs. C. B. Davenport Mrs. Henry de Forest Mrs. Johnston de Forest Mrs. Richard Derby Mrs. A. H. Diebold Mrs. George Draper Mrs. Marshall Field

[†] Deceased.

Mrs. Sidney Fiske Mrs. Childs Frick Mrs. Rodman Gilder Mrs. Hamilton Hadden Mrs. W. Averell Harriman Mrs. Reginald G. Harris Mrs. John D. Hewlett Mrs. Henry Hicks Mrs. Geo. S. Hornblower Mrs. Clyde Huntington Mrs. O. B. James Mrs. Walter B. James Miss C. Jennings Mrs. H. S. Jennings Mrs. Walter Jennings Miss Abbie E. Jones Miss Florence Jones Miss S. Elizabeth Jones Mrs. Otto H. Kahn Mrs. R. C. Leffingwell Mrs. Wilton Lloyd-Smith Mrs. Graham Lusk Mrs. E. Carleton MacDowell Mrs. Van Santvoord Merlesmith

Mrs. Acosta Nichols Mrs. George Nichols Mrs. J. W. T. Nichols Mrs. Arthur W. Page Mrs. Gurdon S. Parker Mrs. H. M. Parshley Mrs. Lee J. Perrin Mrs. J. S. Phipps Mrs. John Ranken Mrs. Archibald B. Roosevelt Mrs. George Roosevelt Mrs. John E. Rousmaniere Mrs. C. C. Rumsey Mrs. Mortimer L. Schiff Mrs. J. H. J. Stewart Mrs. Charles R. Stockard Mrs. W. W. Swingle Mrs. Edwin P. Taylor Mrs. H. C. Taylor Mrs. F. C. Thomas Mrs. H. E. Walter Mrs. Payne Whitney Mrs. T. S. Williams Mrs. Keyes Winter

Mrs. Willis D. Wood

Honorary Members:

Mrs. Andrew Carnegie

Mrs. E. H. Harriman Mrs. Leonard Elmhirst

LABORATORY DIRECTOR'S REPORT

The Biological Laboratory has enjoyed, in the year just completed, the greatest physical growth of its history. Part of this growth permits of expansion for years to come. Part of it meets certain immediate needs of the Laboratory.

The first part is the completion of the purchase of the land in which the Association has been interested for several years. With the passing of the title in April of this year the Biological Laboratory became the owner of land sufficient to receive its expansion for years to come. In the words of the father of the project, Dr. C. B. Davenport, Secretary of the Association, "without the land the growth and usefulness of the Biological Laboratory are severely limited; with it the future of the Laboratory is insured."

For the first time in its history the Biological Laboratory finds itself unhampered by lack of space and the many restrictions which accompany it.

Since acquiring the property the Association has had a topographical survey made. In addition to this, a landscape architect, Mr. Harold A. Caparn, after careful study and consultation, has drawn plans for the use of the property in the most pleasing and practicable way. These plans and suggestions are based upon the utilization of the land for laboratory buildings, dormitories and residences. Their adoption should insure the unity and beauty of future physical development. The accompanying map shows the results of the surveys and demonstrates the admirable location and topography of the property.*

But the new land was not only essential for future development, it was also needed for immediate use. No sooner was the title passed than plans were presented to erect a laboratory building on a portion of the property. The carrying out of the project was authorized by the Executive Committee. No action could be more indicative of the seriousness of purpose of the officers of the Association. The Association had just expended a sum of money of considerable size for so young an organization. Approval of the project meant the expenditure of several thousand dollars in addition to the current expenditures covered by the budget. But the building was essential.

It is now in use by workers at the Laboratory. It is not yet completed in all details but it stands a monument to the faith and courage of those in whose hands lie the destiny of the Laboratory.

This building was designed to meet certain immediate needs. It is forty-two by twenty-six feet, of well-planned and executed frame construction. It has two stories, designed by the architect, Mr. Henry Saylor, each

^{*} The surveyor's topographical survey and the landscape architect's plans were made without cost to the Association, being the gifts of Col. T. S. Williams and Dr. W. B. James, respectively.

to contain a laboratory for the use of a class, and offices for members of the staff. There is also a well lighted and ventilated basement in which private laboratories, a dark room and a machinists' room will be constructed. The building is particularly well located, and is equipped with electricity and running water.

Other immediate needs have been met very modestly but with encouraging results. The old lecture hall has been completely renovated for use as a research laboratory. An additional floor was built in, and eleven private laboratory rooms constructed. The renovation of the basement of the building has been completed, providing an operating room, an animal room and a technical room.

That these improvements were warranted is evidenced by the fact that this year the building has been occupied to its full capacity by some twenty-four investigators and advanced students.

The animal room has been equipped with metal supporting racks, and cages for small mammals. The most essential general equipment has been provided for the operating room. The supply of chemicals and glassware has been increased.

These improvements, together with the admirable administration by Dr. Andrews of the storeroom for chemicals and glassware, have been invaluable to the progress of investigation.

Indeed probably at no time in its history has the Biological Laboratory enjoyed greater activity in biological research.

Instruction

Instruction has received a new impetus. Additional and improved equipment, notably the new building and the new launch, have made possible better working conditions, and the utilization of more distant and varied collecting grounds.

The enrollment has been very encouraging. The addition of the course in Experimental Surgery has brought a small group of unusually advanced and serious students. The increased number of advanced workers and the highly satisfactory type of the students in general predict an era of accomplishment and dignity for the Laboratory.

Changes in the Staff

Prof. H. E. Walter, of Brown University, has resigned from the teaching staff. The following resolution was adopted at a recent meeting of the Board of Directors in appreciation of Dr. Walter's long service as a member of the staff of the Laboratory:

Whereas, Professor Herbert Eugene Walter has found it necessary to retire from active summer teaching after having trained a generation of students at the Biological Laboratory, and having long served as its Assistant Director.

Voted, that the Board of Directors of the Long Island Biological Association expresses its appreciation of his invaluable services to the Laboratory and to the training of biologists. In regretting the loss of Dr. Walter as teacher, the Board finds consolation in being able to profit, through his membership on the Board, by his long experience.

Dr. Justin M. Andrews, Dr. John S. Nicholas and Dr. Wilbur W. Swingle were appointed to the staff in Experimental Surgery. All were previously on the staff of the Laboratory.

Dr. Asa A. Schaeffer, Professor of Zoology at the University of Kansas, was appointed to the staff of the Laboratory in research:

Mr. Roy K. Waggener, Instructor of Biology in Brown University, was appointed Assistant in Field Zoology.

Mr. Frederick K. Sparrow, of Harvard University, was appointed Assistant in Field Botany.

Dr. Henry S. Pratt has recently resigned. The following resolution in recognition of Dr. Pratt's services was voted at a recent meeting of the Board of Directors:

Whereas, Professor Henry Sherring Pratt has found it necessary to retire from active summer teaching, after having put his vast knowledge of animals and their structure at the disposal of students at the Laboratory for almost 30 years,

Voted, that the Board of Directors of the Long Island Biological Association gratefully acknowledges the indebtedness of the Laboratory and of zoological science in general to these services; and offers him henceforth free use of the Laboratory for the furtherance of his researches and scientific writings.

Evening Lectures

The following public evening lectures have been given this year:

Dr. A. M. Banta—Inheritance in Parthenogenesis and in Sexual Reproduction in Daphnia.

Dr. William Crocker—Organization and Equipment for Plant Research as Illustrated by Boyce Thompson Institute.

Dr. W. J. Crozier-Physiology of Certain Tropisms.

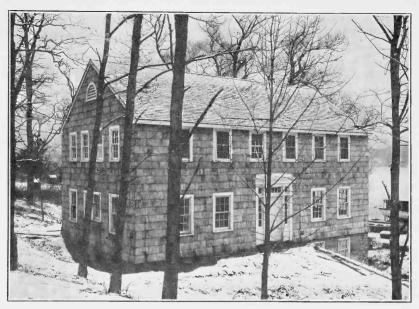
Dr. C. B. Davenport-Human Growth.

Dr. G. Clyde Fisher-With John Burroughs in His Favorite Haunts.

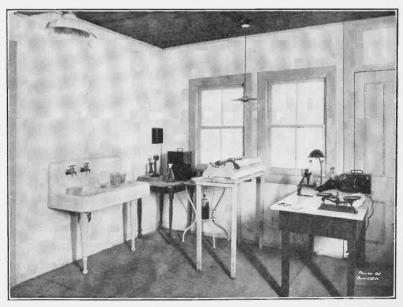
Dr. R. G. Harrison-Heteroplastic Grafting in Animals.

Dr. K. S. Lashley—Experimental Studies on Cerebral Functions in Learning.

Dr. H. H. Laughlin-Genetics of the Thoroughbred Horse.



THE RECENTLY CONSTRUCTED BOTANICAL AND PHYSIOLOGICAL LABORATORY



A Corner of the Operating Room in the Basement of the Research Laboratory

- Dr. Oscar Riddle-Metabolism and the Newer Aspect of the Sex Problem.
- Dr. A. A. Schaeffer—Spiral Movements in Protozoa and Other Animals Including Man.
 - Dr. W. W. Swingle-The Adrenal Gland.

New Members

The following persons have been voted into membership in the classes named: Patrons: Mr. Henry W. de Forest, Mr. Arthur W. Page and Mr. Oran W. Rice. Sustaining Members: Messrs. and Mesdames Mary Chantler, Pierrepont Davenport, Rolfe Floyd, Wendell Gingrich, Myron Gordon, Grace L. Holmes, Mrs. S. C. W. Hoppin, William S. Lord, Graham Netting, Phyllis Stanley.

The Wawepex Society, Inc.

The Wawepex Society of Cold Spring Harbor has drawn up and signed a lease of the three acres of land, occupied by the Laboratory, the John D. Jones Laboratory, and three other buildings for the fifty years following the expiration of the present lease in 1929. In addition to providing the Association with the lands and buildings mentioned, the Society contributes fifteen hundred dollars annually to its support. The officers of the Wawepex Society are: Charles M. Bleecker, Governor; Jesse Knight, scribe; Walter J. Whipple, custodian.

The following resolution was passed upon the death of John H. J. Stewart, former governor of the Wawepex Society and member of the Board of Directors of the Laboratory:

Resolved, that the Board of Directors of the Long Island Biological Association has suffered a grievous loss in the death, on February 4th, 1926, of J. H. J. Stewart, Governor of the Wawepex Society. He was constant in attendance at the meetings of the Executive Committee and of the Board of Directors and showed a marked devotion to the interests of the Association. He represented on the Board the interests of the founder both of the Biological Laboratory and the Wawepex Society, John D. Jones, his kinsman. Mr. Stewart was a man of few words. His judgment on business matters was highly esteemed. His appreciation of nature and country life was keen. We shall miss his genial personality at our meetings and in the community.

Gifts Received During the Year

In addition to the funds given for the purchase of land and totalling over \$50,000 for the fiscal year just completed, the amount received from endowment and contributions increased from \$5,000 to \$10,000.

The bequest of the late Mrs. Eugene Blackford of \$5,000, the income

to be used for the upkeep of Blackford Memorial Hall, has been turned over to the Brooklyn Institute of Arts and Sciences to be held in trust for the Laboratory.

Mr. Oran W. Rice has given the Association the sum of \$2,000, a part of the income to be used in establishing a new scholarship, the Dorothy Frances Rice Scholarship, in memory of Mr. Rice's daughter, a former student at the Biological Laboratory.

Other gifts, in addition to annual contributions to current expenses, include various equipment, materials, and the landscape architect's survey, by Dr. W. B. James; the surveyor's survey of the new property, Col. T. S. Williams; scientific journals and magazines, donated by Mr. Arthur W. Page; and scientific books and journals from the estate of Miss Annie P. Henchman, a former student at the Laboratory and member of the Association.

The Biological Laboratory

The foundation of biology is research. Without scientific observation and inquiry there would be no zoology, or botany, no rational medicine, agriculture or animal husbandry. Continued advance in the knowledge of life, its continuity, diversity, development, differentiation and pathology, is directly dependent upon continued research.

Without research there can be no instruction in biology, for there can be no facts or sound theories to teach.

On the other hand, suitable instruction in the known facts and accepted theories of biology is of inestimable value to the prospective biological investigator.

The Biological Laboratory of the Long Island Biological Association exists for the advancement of biology. Its interest, its raison d'etre, lies in biological research. Its instruction is available to persons who intend to become investigators, or who intend to teach biology, and so pass on its fundamentals to future generations of biologists.

The administration of the Biological Laboratory has no desire for it to be a summer school, in the sense in which the phrase is often used. Though the Laboratory is most active, primarily in the summer, and though instruction is given during that season only, it is done to permit serious students to obtain training that they cannot procure at other seasons in other laboratories. The Laboratory is not interested in university credits per se. While it is willing to give certificates of accomplishment to students who have successfully completed the courses of instruction it offers, it demands that the students be interested primarily in biology.

There was a time when biological investigation and the training of investigators were rather simple procedures. The biological laboratory had only to be well situated, and to provide modest living and working accommoda-

tions for its members. This was true because biology was, at that time, a descriptive science. The biologist observed various living organisms in their natural environments, studied their life histories, described their associations, brought them to the workroom where they were studied and described in detail.

But biology has passed the purely descriptive stage. It has become analytical. The investigator now demands intricate apparatus, and chemical equipment. Buildings and collecting grounds are still necessary, but suitable apparatus is also essential.

It is our firm belief that the degree of dignity achieved by the laboratory in the community and at large, the utilization of its facilities by biologists of the first rank, indeed the value of the laboratory to science, the role it shall play in the development of biology, is directly dependent upon the equipment and funds which the Laboratory has at its disposal.

Numerous indications, including the results obtained by modest expenditures during the last few years, warrant the assumption that the Biological Laboratory is worthy of greater support. It seriously needs a substantially constructed research laboratory. Its equipment for the carying on of biological investigation should be greatly increased before next summer. The men's dormitory should be completely refinished, and modern equipment should be installed in Blackford Hall.

Some of these needs can be met with modest outlays. Others will require the expenditure of considerable sums of money. All are essential to the welfare and productivity of the institution.

REPORT OF THE SECRETARY

- (a) Sixth meeting of the Board of Directors, August 1, 1925. Officers of the Board elected as follows: President, T. S. Williams; Vice-President, Marshall Field; Secretary, Chas. B. Davenport; Treasurer, A. W. Page. Voted to expend \$1,200 to make improvements on old Lecture Hall.
- (b) Fifth Meeting of Executive Committee, Nov. 3, 1925. Definite offer received from agent to sell land on west side of Harbor for \$80,000; and voted to offer \$500 to secure an option on this land.
- (c) Seventh Meeting of Board of Directors at New York City, Dec. 15th. After the reading of a letter by Dr. James expressing his warm approval of the effort to acquire land, and the statement of Mr. Schiff that he favored exercising the option and that he would contribute further and would help raise the remaining money necessary to complete the purchase of the land, it was Voted, that the officers be instructed to accept the option to buy the Townsend Jones property and to do all necessary acts to carry into effect the purpose of this resolution. The Treasurer was directed to ask for payments of subscriptions. Col. H. L. Stimson of the Board, was asked to advise in legal matters regarding the purchase. Appointment of a committee was authorized to divide the land between the Long Island Biologial Association and the Carnegie Institution of Washington. Laboratory Director was instructed to investigate the cost of dredge and salt water apparatus and report to the Board. The Laboratory Director presented his Budget for 1926, totalling \$21,565, and this was approved. Dr. James' gift of a motor boat was accepted. The estate of Mary E. Jones was thanked for the use of their warehouse, long used as Research Laboratory. The treasurer's report was read, as published in the annual report of the Association.

On March 29, 1926, the title to 32.5 acres of land adjacent to the Laboratory was passed to the Long Island Biological Association. This was made possible by gifts of the following: Marshall Field, Wm. J. Matheson, Mortimer Schiff, and W. K. Vanderbilt, each \$10,000, total, \$40,000; Dr. James, \$5,000; Walter Jennings, \$4,250. All the preceding are Founders. Mrs. Otto H. Kahn, \$2,500; J. P. Morgan, \$2,000; Mrs. Willard Straight, \$1,100; Childs Frick, Mrs. T. S. Williams, and George D. Pratt, each \$1,000; Mr. and Mrs. Wilton Lloyd-Smith, \$550; and the following \$500 each: R. C. Leffingwell, Frank L. Babbott, Edward H. Floyd-Jones, Walter J. Whipple, William H. Nichols, Jr., Mrs. Walter Jennings, Mr. W. H. Erhart, Mrs. C. B. Davenport. All the preceding are Patrons; also 35 others contributed smaller amounts.

- (d) The Sixth Meeting of the Executive Committee was held at the laboratory April 3, 1926. Upon announcement of the death of Mr. John H. J. Stewart, member of the Board, Dr. W. B. James was elected to fill vacancy thus made in the Executive Committee. Sundry payments by the Treasurer on account of the purchase of land were authorized.
- (e) The Seventh Meeting of the Executive Committee was held in New York City, April 12th. It was announced that the Brooklyn Institute had repeated its gift of the income of \$5,000 from the Robert B. Woodward bequest. A resolution on the death of Mr. Stewart was passed. It was voted to put the matters of clearing the new land and making a topographic survey into the hands of a committee. Also a committee on buildings and grounds was appointed, Dr. James, Chairman. The building of a new laboratory was authorized, and the purchase of a salt water supply outfit ordered.
- (f) The Eighth Meeting of the Board of Directors was held on June 25th. The Board gratefully accepted the offer of Dr. James to supply paint for parts of the interior of Blackford Hall; and of Mr. Arthur Page to donate subscriptions to 14 scientific periodicals and 8 semi-scientific and popular magazines; also minor gifts were reported and the donors thanked. The treasurer reported a balance on hand of \$1,097.88. A topographic survey of the land was ordered and the employment of Mr. Harold A. Caparn, landscape architect, to make a landscape plan of the new ground was authorized. Mr. Chas. M. Bleecker was elected a member of the Board to fill the vacancy caused by the death of Mr. Stewart. The receipt of \$5,000 from the bequest of Mrs. Eugene G. Blackford for the maintenance of Blackford Memorial was announced.

A gift of Mr. O. W. Rice of \$2,000 to establish the Dorothy Frances Rice scholarship in memory of a former student at the Laboratory has been received. This scholarship is to be applied, primarily, to a woman receiving instruction in botany.

C. B. DAVENPORT, Secretary.

At the meeting of the Board of Directors of Dec. 16, 1926, the resignation of Col. T. S. Williams, President of the Association, was presented. Dr. W. B. James was elected to succeed him. The following resolution was voted in recognition of Mr. Williams' services. That on the retirement of Mr. Timothy S. Williams from the Presidency of the Association, made necessary by the condition of his health, the Board of Directors of the Long Island Biological Association desires to express its hope for his early complete recovery, and its appreciation of the inestimable value of his

service in connection with the foundation and early growth of the Association. His initiative, legal insight, critical examination of all proposals, valuable suggestions, sound judgment, generous gifts at critical times have placed the Association, already under lasting obligations to him.

The membership of the Board of Directors was increased to twenty-four persons. The following were elected to the vacancies thus caused: Prof. Ross G. Harrison, Mr. Oliver B. James, Mr. Henry C. Taylor, and Mr. Willis D. Wood.

A budget for 1927 calling for expenditures of \$28,224, was voted.

TREASURER'S REPORT

EXHIBIT A

ASSETS

IEndowment Fund Assets: Securities in hands of Trustees*	\$22,500.00	
Woodward Memorial Fund*		
(Apportioned by Annual Grant)	5,000.00	
Mrs. Eugene Blackford Bequest*	5,000.00	
Temple Prime Scholarship Fund* Dorothy Rice Scholarship Fund	2,500.00	
Dorothy Rice Scholarship Fund	2,000.00	
II.—Plant Assets:		\$37,000.00
Land	\$66,000.00	
Land**	7,500.00	
Buildings	36,500.00	
Buildings**	32,500.00	
Equipment	9,050.00	
	7,000.00	\$151,550.00
III.—Current Assets:	# 0 0 10 FF	
Cash Bankers Trust Co	\$2,048.75	
Bank of Huntington	12.64	
Petty Cash	9.92	
A		2,071.31
Accounts Receivable	1,407.84	1,407.84
* Brooklyn Institute of Arts and Sciences. ** Wawepex Society I and II of Exhibit A are partly made up of informal estimates		\$192,029.15
EXHIBIT A		
LIABILITIES		
1.—Endowment Funds:	#9 5 000 00	
Brooklyn Institute of Arts and Sciences Dorothy Rice Fund		
Dorothy Rice Pulla	2,000.00	#97 000 00
II.—Plant:	-	\$37,000.00
Long Island Biological Association	#05 550 00	
Wawepex Society	\$85,550.00	
Brooklyn Institute of Arts and Sciences	40,000.00	
Ruilding Fund Loop	22,000.00	
Building Fund Loan	4,000.00	#161 000 00
III.—Accounts Payable		\$151,000.00
Balance of Income for year—Exhibit B	\$2,071.31	173.30
Balance Accounts Receivable over	1.004.54	
Accounts Payable	1,234.54	#0 00° 0°
		\$3,305.85 ————
		\$192,029.15

EXHIBIT B

CURRENT EXPENDITURE ACCOUNT

Collections:	ONI	
Balance Dec. 1, 1925		\$4,308.61
Endowment Interest	\$1,636.26	W 19333101
Bank Interest	213.53	
Contributions—Wawepex	1,500.00	
Others	7,592.00	
Tuition Fees	4,180.00	
Rentals	2,336.78	
Dining Hall	5,949.69	
Storeroom	301.68	
Woman's Auxiliary	5.00	
Miscellaneous	365.00	
Wildernaneous	303.00	\$24,079.94
I can Bank of Huntington		4,000.00
Loan—Bank of Huntington	• • • • • • • • •	4,000.00
		32,388.55
Disbursements:		
Salaries	\$10,338.95*	
Salaries of Instructors	3,485.00	
	•	
Equipment	5,445.97	
Dining Hall	5,943.42	
Repairs, Supplies, Expenses	2,618.75	
Storeroom	273,19	
Biological Supplies	137.03	
Special	684.72	
Interest on Loan	121.33	
Insurance, Surveyors' and Architects' Fees	1,476.75	#00 F0F 11
		\$30,525.11
Balance Current Expenditure Account	• • • • • • • • •	1,863.44
		\$32,388.55
Current Expenditure Account Balance	\$1,863.44	,
Temple Prime Account Balance Cash	56.73	
Dorothy Frances Rice Fund, Balance Cash	60.00	
Land Fund	91.14	
Balance	\$2,071.31	
* Including wages of workmen on new building.		
EXHIBIT C.		
TEMPLE PRIME ACCOUNT		
Balance 1925	\$69.25	
Interest on Fund	137.48	
interest on Fund		
	206.73	
Disbursements	150.00	
Balance		\$56.73

DOROTHY FRANCES RICE FUND

Interest on Fund (6 mos.)	\$60.00	
Balance	\$60.00	
Fund for the Purch	ASE OF LAND	
Balance 1925	\$5,469.00	
Contributions		
D. 1	\$55,673.34	
Disbursements	55,582.20	
Balance	\$91.14	
Arth	UR W. PAGE, Treasurer,	
Fred	Curran, Accountant.	

THE LABORATORY STAFF

- REGINALD G. HARRIS.......Director, Biological Laboratory Experimental Zoology
- H. E. Walter,* Assistant Director, Professor Biology, Brown University Field Zoology
- HENRY SHERRING PRATT......Professor of Biology, Haverford College Comparative Anatomy
- HOWARD M. PARSHLEY......Professor of Zoology, Smith College Field Zoology
- WILBUR W. SWINGLE, Assistant Professor of Zoology, Yale University Endocrine Biology, Experimental Surgery
- NORMAN M. GRIER, Assistant Professor of Evolution, Dartmouth College Systematic and Field Botany
- Asa A. Schaeffer............Professor of Zoology, University of Kansas Experimental Protozoology
- GEORGE F. SYKES, Assistant Professor of Anatomy, Tufts Medical College Associate in Field Zoology
- J. S. Nicholas, Assistant Professor of Anatomy, University of Pittsburgh Assistant in Comparative Anatomy and Experimental Surgery
- J. M. Andrews, Instructor in Protozoology, Johns Hopkins University Chemical Supplies, Assistant in Experimental Surgery
- ROY A. WAGGENER......Instructor in Biology, Brown University
 Assistant in Field Zoology
- EVERETT C. MYERS.......Instructor in Zoology, Johns Hopkins University
 Assistant in Field Zoology
- Myron Gordon..........Heckscher Research Assistant, Cornell University
 Assistant in Field Zoology
- CHARLES B. DAVENPORT, Director Department of Genetics, Carnegie Inst'n Lecturer
- CATHARINE R. BROWNLibrarian
 DOROTHY NEWMANTechnical Assistant
 THOMAS WHEELERCollector and Caretaker

The Staff of the Department of Genetics, Carnegie Institution of Washington, contributes to the scientific life of the Biological Laboratory by occasional lectures and demonstrations and by voluntary co-operation with investigators.

^{*} Resigned.

Persons Matriculated at the Laboratory in 1926

Name	Registration	Institution	Graduate or Undergraduate
Charles E. Abromavi	_	Johns Hopkins	Undergraduate
Fred W. Allen	R.	Kansas	Graduate
P. L. Bailey, Jr.	F. Z.	Brown	Graduate
A. Dorothy Bergner	R.	Goucher and Columbia	Graduate
Charles M. Boucek	R.	University of Pittsburgh	Graduate
G. W. Bradt	F. Z.	Michigan State	Graduate
Arthur H. Bulbulian	E. S.	Middlebury	Graduate-Instr.
J. Jefferson Carlin	F. Z.	Washington and Jefferson	Undergraduate
Marion Collins	E. & F. Z.	Mount Holyoke	Undergraduate
Eleanor G. Connell	F. B.	Smith	Undergraduate
John G. Cook	F. Z.	Dartmouth	Undergraduate
Frances M. DeBone	R.	University of Pittsburgh	Graduate
Clara Dettmer	F. Z.	Elmira	Graduate
Charlotte Dill	E. & F. Z.	Adelphi	Undergraduate
F. E. Dugdale	C. A.	Dartmouth	Undergraduate
Inez Dunkleberger	E.& R.	Kansas	Graduate
Henry C. Evans	F. Z.	Haverford	Graduate
Margaret Fairbairn	F. Z.	Welleslev	Undergraduate
Dolores J. Fay	F. B.	Mount Holyoke	Graduate
Wendell Gingrich	E. S.	North-Western	Graduate
Sally Hamilton	F. Z .	Elmira	Undergraduate
Christine N. Hardy	F. Z.	Bucknell	Graduate
LeRoy K. Henry	F. Z.	University of Pittsburgh	Undergraduate
Grace L. Holmes	F. Z.	Adelphi	Graduate
W. S. Hsu	R.	Harvard	Graduate
Madeleine Jouard	E. & F. Z.		Oracacaco
Anna Kaufman	F. B.	Hunter	Graduate
Vera Kenney	E. & F. Z.	Wellesley	Graduate
Clara L. Ketcham	F. Z.	Hunter & New York Univ.	
Martha Lachman	E. & F. Z.	University of Pittsburgh	Undergraduate
Eleanor Leach	F. Z.	Wellesley	Undergraduate
V. Earl Light	E. F. Z.	Lebanon Valley	Graduate-Instr.
William S. Lord	F. Z.	Dartmouth	Undergraduate
Richard J. Lougee	F. Z.	Dartmouth	Undergraduate
Mary Elinor McKelv			0
•	É. &. F. Z.	University of Pittsburgh	Undergraduate
Jessie L. Metcalf	E. & F. Z.	University of Michigan	Graduate
Eleanor Millikin	F. Z.	Wellesley	Undergraduate
Elizabeth Morse	E. S.	Brown	Graduate
Arthur Nash	F. Z.	University of Minnesota	Graduate
Evelyn Oberlin	F. B.	University of Pittsburgh	Graduate
Esther G. Perham	F. Z.	Brown	Undergraduate
Lillian A. Phelps	R.	Kansas University; Cornell	Graduate
E. Munroe Raymond	F. B.	Dartmouth	Undergraduate
Dorothy Richardson	E. & E. S.	Mount Holyoke	Graduate
Clara Rozenzweig	F. B.	Maxwell Training	Graduate
Elizabeth Sanders	R.	Goucher, Johns Hopkins	Graduate
		-	

Name	Registration	Institution	Graduate or Undergraduate
Victor Schecter	E. & F. Z.	City College of New York	Undergraduate
Eunice Sharp	E. & R.	Brown	Graduate
Mary Shirley	R.	University of Minnesota	Graduate
Harold S. Simonds	F. Z.	Dartmouth	Undergraduate
Christiana Smith	E. & R.	Mount Holyoke	Professor
Phyllis Stanley	E. & E. S.	Brown	Graduate
William F. Storms	F. Z.	Brown	Graduate
H. P. Sturdivant, Jr.	F. Z.	Emory	Instructor
Aubrey B. Taylor	F. Z.	Brown	Undergraduate
Lurana C. Van Doren	F. Z.	George Washington	Graduate
Marie Wallfield	F. Z.	Barnard	Graduate
William F. Wenner	R.	Yale	Graduate
E. Grace White	E. & E. S.	Mt. Holyoke, Columbia	Professor
Clay E. Wilt	F. Z.	Michigan State	Graduate
Raymond L. Zwemer	R.	Yale, Harvard	National Re-
,			search Council
			Fellow

