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I. TRUSTEES

EX OFFICIO

FRANK R. LILLIE, President Emeritus of the Corporation, The University of Chicago.
LAWRASON RIGGS, President of the Corporation, 120 Broadway, New York City.
E. NEWTON HARVEY, Vice President of the Corporation, Princeton University.
CHARLES PACKARD, Director, Marine Biological Laboratory.
OTTO C. GLASER, Clerk of the Corporation, Amherst College.
DONALD M. BRODIE, Treasurer, 522 Fifth Avenue, New York City.

EMERITUS

ROSS G. HARRISON, Yale University.
H. S. JENNINGS, University of California.
C. E. McCLUNG, University of Pennsylvania.
S. O. MAST, Johns Hopkins University.
A. P. MATHEWS, University of Cincinnati.
T. H. MORGAN, California Institute of Technology.
W. J. V. OSTERHOUT, Rockefeller Institute.
G. H. PARKER, Harvard University.
W. B. SCOTT, Princeton University.
DUGALD E. S. BROWN, New York University.
E. R. CLARK, University of Pennsylvania.
OTTO C. GLASER, Amherst College.
E. N. HARVEY, Princeton University.
M. H. JACOBS, University of Pennsylvania.
F. P. KNOWLTON, Syracuse University.
FRANZ SCHRADER, Columbia University.
B. H. WILLIER, Johns Hopkins University.

TO SERVE UNTIL 1946

W. R. AMBERSON, University of Maryland School of Medicine.
S. C. BROOKS, University of California.
W. C. CURTIS, University of Missouri.
H. B. GOODRICH, Wesleyan University.
I. F. LEWIS, University of Virginia.
R. S. LILIE, The University of Chicago.
A. C. REDFIELD, Harvard University.
C. C. SPEIDEL, University of Virginia.

TO SERVE UNTIL 1945

ERIC G. BALL, Harvard University Medical School.
EUGENE F. DUBOIS, Cornell University Medical College.
W. E. GARVEY, Vanderbilt University Medical School.
COLUMBUS ISELIN, Woods Hole Oceanographic Institution.
C. W. METZ, University of Pennsylvania.
H. H. PLOUGH, Amherst College.
W. R. TAYLOR, University of Michigan.

TO SERVE UNTIL 1944

W. C. ALLEE, The University of Chicago.
G. H. A. CLOWES, Lilly Research Laboratory.
B. M. DUGGAR, University of Wisconsin.
L. V. HEILBRUNN, University of Pennsylvania.
LAURENCE IRVING, Swarthmore College.
J. H. NORTHROP, Rockefeller Institute.
A. H. STURTEVANT, California Institute of Technology.
LORENDE L. WOODRUFF, Yale University.

EXECUTIVE COMMITTEE OF THE BOARD OF TRUSTEES

LAWRASON RIGGS, Ex officio, Chairman.
E. N. HARVEY, Ex officio.
D. M. BRODIE, Ex officio.
CHARLES PACKARD, Ex officio.
D. E. S. BROWN, to serve until 1943.
B. H. WILLIER, to serve until 1943.
C. W. METZ, to serve until 1944.
OTTO C. GLASER, to serve until 1944.
ACT OF INCORPORATION

THE LIBRARY COMMITTEE

A. C. Redfield, Chairman.
E. G. Ball.
S. C. Brooks.
M. E. Krahl.
J. W. Mayor.

THE APPARATUS COMMITTEE

D. E. S. Brown, Chairman.
C. L. Claff.
G. Failla.
S. E. Hill.
A. K. Parpart.

THE SUPPLY DEPARTMENT COMMITTEE

L. G. Barth, Chairman.
E. G. Ball.
P. S. Galsoff.
R. T. Kempton.
D. A. Marsland.

THE EVENING LECTURE COMMITTEE

B. H. Willier, Chairman.
M. H. Jacobs.
Charles Packard.

THE INSTRUCTION COMMITTEE

H. B. Goodrich, Chairman.
W. C. Allee.
S. C. Brooks.
Viktor Hamburger.
Charles Packard.

II. ACT OF INCORPORATION

No. 3170

COMMONWEALTH OF MASSACHUSETTS

Be It Known, That whereas Alpheus Hyatt, William Sanford Stevens, William T. Sedgwick, Edward G. Gardiner, Susan Minns, Charles Sedgwick Minot, Samuel Wells, William G. Farlow, Anna D. Phillips and B. H. Van Vleck have associated themselves with the intention of forming a Corporation under the name of the Marine Biological Laboratory, for the purpose of establishing and maintaining a laboratory or station for scientific study and investigation, and a school for instruction in biology and natural history, and have complied with the provisions of the statutes of this Commonwealth in such case made and provided, as appears from the certificate of the President, Treasurer, and Trustees of said Corporation, duly approved by the Commissioner of Corporations, and recorded in this office;

Now, therefore, I, Henry B. Pierce, Secretary of the Commonwealth of Massachusetts, do hereby certify that said A. Hyatt, W. S. Stevens, W. T. Sedgwick, E. G. Gardiner, S. Minns, C. S. Minot, S. Wells, W. G. Farlow, A. D. Phillips, and B. H. Van Vleck, their associates and successors, are legally organized and established as, and are hereby
made, an existing Corporation, under the name of the MARINE BIOLOGICAL LAB-
ORATORY, with the powers, rights, and privileges, and subject to the limitations, duties, 
and restrictions, which by law appertain thereto.

Witness my official signature hereunto subscribed, and the seal of the Commonwealth 
of Massachusetts hereunto affixed, this twentieth day of March, in the year of our Lord 
One Thousand Eight Hundred and Eighty-Eight.

HENRY B. PIERCE, 
Secretary of the Commonwealth.

III. BY-LAWS OF THE CORPORATION OF THE MARINE 
BIOLOGICAL LABORATORY

I. The annual meeting of the members shall be held on the second Tuesday in August, 
at the Laboratory, in Woods Hole, Mass., at 11.30 A.M., daylight saving time, in each 
year, and at such meeting the members shall choose by ballot a Treasurer and a Clerk to 
serve one year, and eight Trustees to serve four years. There shall be thirty-two Trustees 
thus chosen divided into four classes, each to serve four years, and in addition there shall 
be two groups of Trustees as follows: (a) Trustees ex officio, who shall be the President 
of the Corporation, the Director of the Laboratory, the Associate Director, the Treasurer 
and the Clerk; (b) Trustees Emeritus, who shall be elected from the Trustees by the Cor- 
poration. Any regular Trustee who has attained the age of seventy years shall continue 
to serve as Trustee until the next annual meeting of the Corporation, whereupon his office 
as regular Trustee shall become vacant and be filled by election by the Corporation and he 
shall become eligible for election as Trustee Emeritus for life. The Trustees ex officio 
and Emeritus shall have all rights of the Trustees except that Trustees Emeritus shall not 
have the right to vote.

The Trustees and officers shall hold their respective offices until their successors are 
chosen and have qualified in their stead.

II. Special meetings of the members may be called by the Trustees to be held in Boston 
or in Woods Hole at such time and place as may be designated.

III. Inasmuch as the time and place of the Annual Meeting of Members are fixed by 
these By-laws, no notice of the Annual Meeting need be given. Notice of any special 
meeting of members, however, shall be given by the Clerk by mailing notice of the time 
and place and purpose of said meeting, at least fifteen (15) days before such meeting, to 
each member at his or her address as shown on the records of the Corporation.

IV. Twenty-five members shall constitute a quorum at any meeting.

V. The Trustees shall have the control and management of the affairs of the Corpora-
tion; they shall present a report of its condition at every annual meeting; they shall elect 
one of their number President of the Corporation who shall also be Chairman of the Board 
of Trustees; they shall appoint a Director of the Laboratory; and they may choose such 
other officers and agents as they may think best; they may fix the compensation and define 
the duties of all the officers and agents; and may remove them, or any of them, except those 
chosen by the members, at any time; they may fill vacancies occurring in any manner in 
their own number or in any of the officers. They shall from time to time elect members 
to the Corporation upon such terms and conditions as they may think best.

VI. Meetings of the Trustees shall be called by the President, or by any two Trustees, 
and the Secretary shall give notice thereof by written or printed notice sent to each Trustee 
by mail, postpaid. Seven Trustees shall constitute a quorum for the transaction of busi-
ness. The Board of Trustees shall have power to choose an Executive Committee from 
their own number, and to delegate to such Committee such of their own powers as they 
may deem expedient.
VII. The accounts of the Treasurer shall be audited annually by a certified public accountant.

VIII. The consent of every Trustee shall be necessary to dissolution of the Marine Biological Laboratory. In case of dissolution, the property shall be disposed of in such manner and upon such terms as shall be determined by the affirmative vote of two-thirds of the Board of Trustees.

IX. These By-laws may be altered at any meeting of the Trustees, provided that the notice of such meeting shall state that an alteration of the By-laws will be acted upon.

X. Any member in good standing may vote at any meeting, either in person or by proxy duly executed.

IV. THE REPORT OF THE TREASURER

To THE TRUSTEES OF THE MARINE BIOLOGICAL LABORATORY:

Gentlemen:

Herewith is my report as Treasurer of the Marine Biological Laboratory for the year 1942.

The accounts have been audited by Messrs. Seamans, Stetson and Tuttle, certified public accountants. A copy of their report is on file at the Laboratory and is open to inspection by members of the Corporation.

The principal summaries of their report—The Balance Sheet, Statement of Income and Expense, and Current Surplus Account—are appended hereto as Exhibits A, B and C.

The following are some general statements and observations based on the detailed reports:

1. Assets
   
   1. Endowment Assets
      
      At the end of 1942 the total of all the Endowment Assets was $1,071,990.90, a loss of $7,821.17 from the preceding total, due largely to the loss of $8,801.13 incurred in the sale of one of the New York City real estate holdings on which the Laboratory had held a mortgage participation. The market value of the marketable securities increased slightly during the year. Using book values for the mortgage and real estate participations for which there are no market values, the total market value of all Endowment Assets was $1,020,282.41, compared with $999,599.86 at the end of 1941.

   2. Plant Assets
      
      The total of Plant Assets (excluding the Gansett and Devil's Lane Tracts) was $1,357,761.97 after deduction of $608,146.02 accumulated Depreciation Reserve. This represents a decrease of $18,407.84. Actual additions to Plant Assets during the year totalled $12,208.30 but this gain was more than offset by depreciation charges on buildings and equipment amounting to $26,935.14.

      During the year $108.00 was expended on the construction of the Library addition. This left a balance of $2,762.07 remaining from the gifts totalling $110,400.00 received in 1940 and 1941 from the Rockefeller Foundation for the addition. This unexpended balance of $2,762.07 was returned to the Rockefeller Foundation in December in accordance with the understanding with the donor.
3. Current Assets

Current Assets, including cash, inventories and investments not in the Endowment Funds, amounted to $164,669.02, a decrease of $7,001.09. Current Liabilities (accounts payable) were $4,996.85 as compared with $6,423.47 so that Current Surplus was down only $5,574.47 to a total of $159,672.77.

II. Income and Expenditures

Total Income was $146,069.76, a decrease of $16,676.94 from 1941. Total expenditures including the $26,935.14 added to Depreciation Reserves were $163,281.69, a decrease of $8,947.02. The deficit for the year was, therefore, $17,211.93 as compared with the 1941 deficit of $9,482.01.

The decline in income was due to several factors. Income from the General Endowment and Library Funds was down from $38,879.73 in 1941 to $35,883.81. Dividends from the General Biological Supply House, Inc., dropped from $17,780.00 to $10,922.00. “Research” net income declined from $8,606.65 to $4,948.42. “Instruction” resulted in a net loss of $2,063.57 instead of the 1941 net profit of $176.45.

The Laboratory Administration met the problem created by reduced income by reducing operating expenses as shown in the detailed appendices. Maintenance expenses were substantially reduced and the usual deficits in operation of the mess, dormitory and supply departments (deficits caused only by depreciation and rental charges) were lessened. The rentals received from the United States Navy for the Laboratory properties under lease (Mess Hall, Apartment House, etc.) were also of assistance in reducing the deficit. Such rentals actually paid in 1942 amounted to $10,847.47 and were allocated to the respective accounts. In addition as of December 31st there were rental accruals due from the Navy of $1,677.47.

EXHIBIT A

MARINE BIOLOGICAL LABORATORY BALANCE SHEET, DECEMBER 31, 1942

Assets

Endowment Assets and Equities:
Securities and Cash in Hands of Central Hanover Bank and Trust Company, New York, Trustee .................. $1,062,364.97
Securities and Cash in Minor Funds ..................... 9,625.93
Total Endowment Assets and Equities .................. $1,071,990.90

Plant Assets:
Land ................................................. $ 111,425.38
Buildings ......................................... 1,322,315.51
Equipment ......................................... 185,313.69
Library ............................................. 320,069.89
Total Plant Assets .................................. $1,939,124.47
Less Reserve for Depreciation ......................... 608,146.02
Total Plant Assets less Reserve for Depreciation ...... $1,330,978.45

Cash in Reserve Fund ................................ $ 4,273.51
Cash in Book Fund .................................. 22,510.01
Total Cash .......................... $1,357,761.97
REPORT OF THE TREASURER

Current Assets:
- Cash $4,965.40
- Accounts Receivable $18,537.86
  
  Inventories:
  - Supply Department $31,683.18
  - Biological Bulletin $12,768.29
  - Total Inventories $44,451.47

  Investments:
  - Devil’s Lane Property $45,720.27
  - Gansett Property $100.68
  - Stock in General Biological Supply House, Inc. $12,700.00
  - Other Investment Stocks $17,770.00
  - Retirement Fund $14,137.88
  - Total Investments $90,428.83

Prepaid Insurance $4,291.72
Items in Suspense $1,994.34

Total Assets $2,594,422.49

Liabilities

Endowment Funds:
- Endowment Funds $1,060,069.32
- Reserve for Amortization of Bond Premiums $2,295.65
- Minor Funds $9,625.93
- Total Endowment Funds $1,071,990.90

Plant Liabilities and Surplus:
- Donations and Gifts $1,172,564.04
- Other Investments in Plant from Gifts and Current Funds $185,197.93
- Total Plant Liabilities and Surplus $1,357,761.97

Current Liabilities and Surplus:
- Accounts Payable $4,996.85
- Current Surplus (Exhibit C) $159,672.77
- Total Current Liabilities and Surplus $164,669.62

Total Liabilities $2,594,422.49

EXHIBIT B

MARINE BIOLOGICAL LABORATORY INCOME AND EXPENSE,
YEAR ENDED DECEMBER 31, 1942

Income:

<table>
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<tr>
<th>Total</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Expense</td>
<td>Income</td>
</tr>
<tr>
<td>General Endowment Fund</td>
<td>$ 29,549.85</td>
</tr>
<tr>
<td>Library Fund</td>
<td>6,333.96</td>
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<tr>
<td>Instruction</td>
<td>$ 7,508.57</td>
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<tr>
<td>Research</td>
<td>5,600.98</td>
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</table>
### MARINE BIOLOGICAL LABORATORY

#### Evening Lectures
8.95

#### Biological Bulletin and Membership Dues
7,575.89 8,244.44 668.55

#### Supply Department
42,306.45 40,607.40 1,699.05

#### Mess
16,040.39 14,436.11 1,604.28

#### Dormitories
21,151.71 12,676.29 8,475.42

(Interest and Depreciation charged to above 3 Departments) 24,197.25 24,197.25

#### Dividends, General Biological Supply House, Inc.
10,922.00 10,922.00

#### Dividends, Crane Company
500.00 500.00

#### Rents:
- Bar Neck Property: 648.80 4,338.02 3,690.12
- Janitor House: 24.16 360.00 335.84
- Danchakoff Cottages: 270.11 600.00 329.89
- Lecture Hall and Botany Building: 666.66 666.66
- Sale of Library Duplicates and Micro Films: 89.82 89.82
- Apparatus Rental: 689.63 689.63
- Sundry Income: 60.28 60.28

#### Maintenance of Plant:
- Buildings and Grounds: 21,419.05 21,419.05
- Apparatus Department: 5,952.23 5,952.23
- Chemical Department: 2,789.77 2,789.77
- Library Expense: 7,883.29 7,883.29
- Workmen's Compensation Insurance: 541.87 541.87
- Truck Expense: 307.04 307.04
- Bay Shore Property: 86.57 86.57
- Great Cedar Swamp: 19.35 19.35

#### General Expenses:
- Administration Expense: 12,501.53 12,501.53
- Endowment Fund Trustee and Safekeeping: 1,014.45 1,014.45
- Bad Debts: 355.78 355.78
- Special Repairs, Supply Dep't Stone Building: 5,811.86 5,811.86
- Payment to former Technical Director: 725.00 725.00
- Reserve for Depreciation: 26,935.14 26,935.14

<table>
<thead>
<tr>
<th>Description</th>
<th>1942</th>
<th>1941</th>
<th>1940</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$163,281.69</td>
<td>$100,194.20</td>
<td>$82,982.27</td>
</tr>
<tr>
<td>Excess of Expense over Income carried to Current Surplus</td>
<td>$ 17,211.93</td>
<td>$ 17,211.93</td>
<td></td>
</tr>
<tr>
<td></td>
<td>$163,281.69</td>
<td>$100,194.20</td>
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</tbody>
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### EXHIBIT C

#### MARINE BIOLOGICAL LABORATORY, CURRENT SURPLUS ACCOUNT

**YEAR ENDED DECEMBER 31, 1942**

<table>
<thead>
<tr>
<th>Description</th>
<th>1942</th>
<th>1941</th>
<th>1940</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance, January 1, 1942</td>
<td>$165,247.24</td>
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<tr>
<td>Add:</td>
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<td></td>
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<tr>
<td>Reserve for Depreciation Charged to Plant Funds</td>
<td>$26,935.14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bad Debts Recovered</td>
<td>36.39</td>
<td></td>
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<tr>
<td>Gain on Gansett Lot Sold</td>
<td>47.83</td>
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<td></td>
<td>$ 27,019.36</td>
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<tr>
<td></td>
<td></td>
<td>$192,266.60</td>
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</table>
REPORT OF THE LIBRARIAN

Deduct:

Excess of Expense over Income for Year as shown in Exhibit B... $17,211.93

Payments from Current Funds during Year for Plant Assets:

Building .................................................. $3,192.99
Equipment .................................................. 1,580.98
Library ..................................................... 7,449.33

$12,223.30

Less Received for Plant Assets Disposed of ............. 15.00

$12,208.30

Pensions Paid ............................................. $3,460.00
Less Retirement Fund Income ................................ 286.40

$3,173.60

$32,593.83

Balance, December 31, 1942 ................................ $159,672.77

Respectfully Submitted,

DONALD M. BRODIE,
Treasurer.

V. REPORT OF THE LIBRARIAN

The Library budget for 1942 was greatly reduced by action of the Executive Committee. For the years 1934-41 inclusive it was $18,850 per year, with only slight variations; for 1942 it was $12,200, a decrease of more than $6,000. Since 1940 we have received fewer and fewer European continental journals, until now practically none come in. Our subscriptions, however, are kept up, and the journals which cannot be delivered are being stored for the duration. Meanwhile no payments for these subscriptions have been made. For this reason there was an unexpended balance at the end of 1940. In 1940 the Library Committee requested that the balance, amounting to $3,977.18, be placed in a reserve fund from which to pay for the journals and back sets at such a time as they might be delivered. This request was granted by the Executive Committee. Early in the year 1941 a sum of $2,228.32 was so spent. A similar request in 1941 was not granted, and the unexpended balance of $2,663.48 for that year reverted to the general fund of the Laboratory. No request for a reserve fund was made in 1942. The Laboratory is now committed to pay for three years of foreign subscriptions, assuming that the journals can be delivered at some future time. There is now no adequate reserve fund from which such payments may be made.

This year the $12,200 appropriated was expended as follows: books, $91.06; serials, $1,489.28; binding, $1,084.05; express, $174.63; supplies, $471.15; salaries, $7,200; back sets, $1,797.92; sundries, $26.75; and insurance, $45.00; total, $12,379.84. The sales of duplicates brought in this year $26.06 and the income from the microfilm service inaugurated in the summer amounted to $63.76, the expenses for this latter having been charged to "supplies" and "salaries."

From the "Carnegie Fund" $2,239.01 was spent for back sets and journals and $250.98 for valuable books that we term biological "classics"; in all, 15 completed back sets, 24 partially completed and 23 "classics."
The Woods Hole Oceanographic Institution appropriated $800 to the Library for 1942 and a balance of $154.65 remained from the 1941 budget. An expended sum of $884.54 has been reported to the Director. A balance of $70.11 was carried on to the year 1943.

Since practically no current issues of journals have come to us from Europe since June 1941, it seems best in this report to give the figures for current journals actually received rather than for the subscriptions and exchange orders due us. This explains the sharp drop in this item that follows as compared with that for 1941. In 1942 the Library received 637 current publications (1,297 in 1941); 227 (11 new) in subscriptions to the Marine Biological Laboratory, 18 (1 new) to the Woods Hole Oceanographic Institution; 209 exchanges, 192 (2 new) with the "Biological Bulletin" and 17 (0 new) with the Woods Hole Oceanographic Institution publications; 178 gifts to the former and 5 to the latter. The Marine Biological Laboratory acquired 107 books; 43 by purchase of the Marine Biological Laboratory (23 "classics" see above), 15 by purchase of the Woods Hole Oceanographic Institution; 16 as gifts from the authors, 30 from publishers and 3 miscellaneous. There were 47 back sets of serial publications completed; 34 purchased by the Marine Biological Laboratory (15 with "Carnegie Fund"), 2 by the Woods Hole Oceanographic Institution; 1 secured by exchange of the "Biological Bulletin"; 5 as gifts to the same and 5 by exchange of duplicate material. Partially completed sets were 164: purchased by the Marine Biological Laboratory, 59 (24 with "Carnegie Fund") by the Woods Hole Oceanographic Institution. 3; by exchange of the "Biological Bulletin," 1; by gift to the same, 44; and by exchange of duplicate material, 57. The reprint additions number 3,097: current of 1941, 436; current of 1942, 23; and of previous dates, 2,638. The present holdings of the Library are 50,937 bound volumes and 122,723 reprints.

Very few of the current reprints received were catalogued during 1942. From May until November three members of the staff spent the major part of their working hours on the "List of serial holdings" to be published as a "supplement" to the "Biological Bulletin" in the February 1943 issue. The total reprints of date 1941 therefore will be recorded, as well as those of the date 1942, in the 1943 report. The current reprints separated from those of previous dates were first counted in the 1937 report and are summarized as follows: 1936–37, 4,602; 1938, 2,453; 1939, 2,246; and 1940, 1,887. The decline in current reprints in 1940 continues in 1941–42. It would seem that the efforts made so far by the Librarian to impress upon investigators the importance of these current reprints can have had no sustained effect. The best results were obtained by personal interviews of the Library with individuals and credit must be given to those, and they are considerable in number, who do conscientiously send their reprints as issued. Perhaps a better method of keeping the collection to date may be devised when the war conditions are over.

During the year seven valuable gifts in non-current reprints were received; a total of 17,017. Of these 7,759 were new to us and will be filed for use; 9,258, being duplicate, will be placed in our duplicate files and any third copies will be for sale. The Library is indebted to Dr. Rudolf Höber for the generous gift of his collection of 7,217 reprints in the subjects of physical and physiological chemistry and physiology; to Dr. H. E. Crampton, for the high figure of 5,102 reprints on miscellaneous subjects; from Mrs. H. J. Fry and Dr. Robert Chambers, Dr. Fry's
collection in cytology, 2,660 in all; Dr. D. J. Edwards contributed 606 reprints; Dr. E. J. Herrick, 383; Dr. Libbie H. Hyman, 965; and Dr. B. M. Davis, 84. Miss Mathilda Koch kindly sent to us several sets of journals and four books from the Library of her brother, Dr. Waldemar Koch, with the understanding that the books should be incorporated in the Library, and the journals, which are duplicates to us, should revert to our use for sale or exchange in case the sale of these is not consummated within a given period. The addition of 7,759 reprints to the back files of reprints is the highest number that has ever been added in one year to the Library's collection and Dr. Höber's gift is the largest single collection that this Library has ever received.

VI. THE REPORT OF THE DIRECTOR

To the Trustees of the Marine Biological Laboratory:

Gentlemen:

I beg to submit herewith a report of the fifty-fifth session of the Marine Biological Laboratory for the year 1942.

1. Changes in Personnel. At the Trustees' meeting in 1940, Dr. F. R. Lillie presented his resignation as President of the Corporation and Chairman of the Executive Committee. He was persuaded, however, to continue his duties until suitable preparations could be made for naming his successor. The Committee entrusted with this responsibility agreed that the office of President deals largely with the external relations of the Laboratory and that search should be made for some one who would appropriately represent the Laboratory in this field. At the same time they felt that there should be a Vice President who would represent Biology. After due consideration, Lawrason Riggs, Treasurer of the Corporation since 1924, was nominated for the Presidency, and Dr. E. Newton Harvey was named to fill the newly created position of Vice President. They were formally elected to these offices at the Trustees' meeting in 1942. At the Corporation meeting, Mr. Donald M. Brodie, formerly manager of Mr. C. R. Crane's New York office, was elected Treasurer in place of Mr. Riggs, and Dr. Otto Glaser was elected Clerk of the Corporation in place of Dr. P. B. Armstrong who resigned because of pressure of war work. The Laboratory is fortunate in securing the services of these men and confidently gives them its whole-hearted support. Dr. Lillie was named President Emeritus of the Corporation. Dr. Packard, the Director, was made Resident Director, and assumed his full time duties at the Laboratory on October 1, 1942.

2. Financial. At the present time the financial condition of the Laboratory is satisfactory, even though our income has fallen during the past few years. In 1942 it was about 16 per cent below the average of the preceding eight years, the decrease being due, in large measure, to a sharp drop in returns from the endowment funds and from dividends, from research fees, and from the courses of instruction. It is a matter of gratification that many of our subscribing institutions have continued their support even though they can send few representatives or none at all. On the other hand, the income from the Supply Department increased, and so also did the item of Rentals, a result of the Navy's occupation of the Apartment House, the Mess, and other buildings. At the same time our expenditures have been reduced. The cost of maintaining the buildings, and of administration,
12 MARINE BIOLOGICAL LABORATORY

has fallen somewhat below the average, but the chief reductions are in the appropriations for the Library and the Apparatus Department. These economies have, in a sense, been forced upon us. A large proportion of the foreign journals, to which we are still subscribing, can no longer be delivered to us; our payments for them have therefore ceased. Then, also, we can buy little new scientific equipment. Thus far this has not worked any great hardship on the investigators, for with reduced attendance, the call for apparatus has lessened. What we have on hand can be adapted to new needs with the aid of the Apparatus Department staff. Under these conditions the Laboratory can continue to operate within its budget.

But these conditions will not long continue. When normal interchange with Europe is re-established we shall presumably receive the journals now held in storage for us, and for them we must pay approximately the amount which was taken from the Library appropriation. So, also, after the war we shall need a substantial sum for the replacement of old apparatus, and more particularly, for the purchase of new tools for research to be used in new fields, such as electronics, which have been so greatly developed within the last few years.

3. Attendance. A comparison of the attendance at the Laboratory in 1941 and 1942 with the average of the preceding five-year period shows how seriously the war is affecting us. The years 1936–1940 marked the highest attendance in our history. In 1937 the total registration was 511, and in 1940, 507. The decline began in 1941 when the number of independent investigators fell off noticeably. The other groups, however, were present in normal numbers. In 1942 the attendance in all groups declined sharply, the change being most marked among the younger members. Only about one-third of the usual number of assistants was present, and only one-fourth of the beginning investigators. In the classes, attendance dropped to about two-thirds of the average except in Physiology where the falling off was greater. Many of the investigators taught at their colleges throughout the summer, and will continue to do so for the duration. Others are engaged on wartime problems which they are carrying on at their own institutions. In many cases this research is in their chosen field, so their time is by no means lost. Indeed in some instances it has already opened up new fields for future exploration. But the armed services have absorbed a large proportion of the younger generation who normally would take our courses or begin research. For some time to come, few young and vigorous minds will be added to our list of investigators. All the more it is incumbent upon those who remain to continue and to extend their peacetime investigations.

record of attendance, 1936-1942

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<td>Students</td>
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<td>Corrected Totals</td>
<td>473</td>
<td>511</td>
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<td>471</td>
<td>507</td>
<td>489</td>
<td>461</td>
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4. Losses by Death. In the death of Dr. Calkins the Laboratory loses a devoted friend. His important services as Clerk of the Corporation, Secretary of the Board of Trustees, as an active member of many committees, and as head of the Protozoology course, will long be remembered.
During the year also occurred the death of one of our Life Members, Dr. A. Lawrence Lowell, who served as Clerk of the Corporation from 1890 to 1894.

5. The Stone Building. During the fall and winter the Stone Building has been completely renovated. The decision to do this was made when the Executive Committee, after a tour of inspection, realized how serious the condition was. Only a part of the basement could be used; the stairs were no longer safe; the first and second floors were not strong enough to permit the storage of heavy tanks; the shingles and trim were in bad shape. These deficiencies have been corrected. The entire basement is now available for storage, there is a new concrete floor, a new heating system, and adequate plumbing and lighting. To provide more head room, the ceiling was raised 18 inches. Many steel columns, both in the basement and in the first floor, support the great carrying beams which are still sound. The front of the first floor is now divided into offices and laboratories. The business of the Supply Department can therefore be carried on in the Stone building, leaving the wooden building to be used primarily for the preparation of material. These changes were planned and carried out by Mr. Larkin and Mr. Hemenway, the latter bearing the larger share of the work. Both the inside and the outside of the building are now in excellent condition.

In summary, the Laboratory during these disturbing times is maintaining its usual services, and by rigid economies, is balancing its budget. This quiescent period will not long continue; we must prepare for an expansion of our research facilities soon after the war ends.

6. Election of Trustees. At the meeting of the Corporation held August 11, 1942, the following Trustees were elected Trustees Emeritus:

A. P. Mathews, University of Cincinnati
S. O. Mast, The Johns Hopkins University

The new Trustees elected at that meeting are:

Eugene F. DuBois, Class of 1944
Eric G. Ball, Class of 1944

7. There are appended as parts of this report:

1. The Staff.
2. Investigators and Students.
5. Evening Lectures.
7. Members of the Corporation.

Respectfully submitted,

CHARLES PACKARD,
Director

1. THE STAFF, 1942

CHARLES PACKARD, Director, Marine Biological Laboratory, Woods Hole, Massachusetts.

SENIOR STAFF OF INVESTIGATION

GARY N. CALKINS, Professor Emeritus of Protozoology, in residence, Columbia University.
E. G. CONKLIN, Professor of Zoology, Emeritus, Princeton University.
CASWELL GRAVE, Professor of Zoology, Emeritus, Washington University.
FRANK R. LILLIE, Professor of Embryology, Emeritus, The University of Chicago.
RALPH S. LILLIE, Professor of General Physiology, The University of Chicago.
C. E. MCCLUNG, Professor of Zoology, Emeritus, University of Pennsylvania.
S. O. MAST, Professor of Zoology, Johns Hopkins University.
A. P. MATHEWS, Professor Emeritus, Biochemistry, University of Cincinnati.
T. H. MORGAN, Director of the Biological Laboratory, California Institute of Technology.
G. H. PARKER, Professor of Zoology, Emeritus, Harvard University.

ZOLOGY
I. Consultants
T. H. BISSONNETTE, Professor of Biology, Trinity College.
L. L. WOODRUFF, Professor of Protozoology, Yale University.

II. Instructors
A. J. WATERMAN, Associate Professor of Biology, Williams College, in charge of course.
JOHN B. BUCK, Assistant Professor of Zoology, University of Rochester.
M. D. BURKENROAD, Assistant Curator, Bingham Oceanographic Foundation, Yale University.
W. G. HEWATT, Professor of Biology, Texas Christian University.
W. E. MARTIN, Associate Professor of Zoology, DePauw University.
N. T. MATTOX, Assistant Professor of Zoology, Miami University.
R. W. WILHELMI, Instructor in Zoology, University of Missouri.

III. Laboratory Assistant
RUTH MERWIN, University of Chicago.

EMBRYOLOGY
I. Consultants
L. G. BARTH, Assistant Professor of Zoology, Columbia University.
H. B. GOODRICH, Professor of Biology, Wesleyan University.

II. Instructors
VIKTOR HAMBURGER, Professor of Zoology, Washington University, in charge of course.
DONALD P. COSTELLO, Assistant Professor of Zoology, University of North Carolina (absent in 1942).
CHARLES B. METZ, Teaching Fellow, California Institute of Technology.
OLIN RULON, Assistant Professor of Biology, Wayne University.
RAY L. WATTERSON, Instructor in Embryology, Dartmouth College.

PHYSIOLOGY
I. Consultants
WILLIAM R. AMBERSON, Professor of Physiology, University of Maryland, School of Medicine.
HAROLD C. BRADLEY, Professor of Physiological Chemistry, University of Wisconsin.
WALTER E. GARREY, Professor of Physiology, Vanderbilt University Medical School.
MERKEL H. JACOBS, Professor of Physiology, University of Pennsylvania.
II. Instructors

Rudolf T. Kempton, Professor of Zoology, Vassar College, in charge of course.
Kenneth C. Fisher, Assistant Professor of Experimental Biology, University of Toronto.
Arthur C. Giese, Associate Professor of Biology, Stanford University.
F. J. M. Sichel, Assistant Professor of Physiology, University of Vermont, College of Medicine.

Botany

I. Consultants

S. C. Brooks, Professor of Zoology, University of California.
D. R. Goddard, Assistant Professor of Botany, University of Rochester.

II. Instructors

Wm. Randolph Taylor, Professor of Botany, University of Michigan, in charge of course.
Hannah Croasdale, Technical Assistant, Dartmouth College.

Experimental Radiology

G. Failla, Memorial Hospital, New York City.
L. Robinson Hyde, Phillips Exeter Academy, Exeter, N. H.

Library

Priscilla B. Montgomery (Mrs. Thomas H. Montgomery, Jr.), Librarian
Deborah Lawrence
Mary A. Rohan
S. Mabel Thombs

Apparatus Department

E. P. Little, Phillips Exeter Academy, Exeter, N. H., Manager
J. D. Graham
R. S. Liljestrand

Chemical Department

Kenneth C. Ballard, Lawrence High School, Falmouth, Mass., Manager

Supply Department

James McInnis, Manager

Ruth Crowell
W. E. Kahler
Grace Harman
G. Lehy
A. W. Leathers
F. N. Whitman

General Office

F. M. MacNaught, Business Manager
Polly L. Crowell
Glade F. Allen

General Maintenance

T. E. Larkin, Superintendent

F. A. Cannon
W. C. Hemenway
R. W. Kahler
T. E. Tawell
R. F. Travis
J. Wynne

The George M. Gray Museum

George M. Gray, Curator Emeritus
2. INVESTIGATORS AND STUDENTS

Independent Investigators, 1942

ADDISON, William H. F., Professor of Normal Histology and Embryology, University of Pennsylvania, School of Medicine.

ANDERSON, Thomas F., RCA Fellow, National Research Council.

ANDREW, Warren, Assistant-Professor of Histology and Embryology, Baylor University, College of Medicine.

BAKER, Horace B., Professor of Zoology, University of Pennsylvania.

BALL, Eric G., Associate Professor, Department of Biological Chemistry, Harvard Medical School.

BALL, Ernest, National Research Fellow in Botany, Yale University.

BARTH, L. G., Assistant Professor of Zoology, Columbia University.

BARTELL, James H., Jr., Associate Professor of Theoretical Physics, University of Illinois.

BERGER, Charles A., Professor of Cytology and Genetics, Fordham University.

Bissomette, T. H., Professor of Biology, Trinity College.

BLUM, John L., Instructor in Biology, Canisius College.

BODIAN, David, Associate in Epidemiology, Johns Hopkins University.

BOTSFORD, E. Frances, Associate Professor of Zoology, Connecticut College.

BROOKS, Matilda M., Research Associate, University of California.

BROOKS, SUMNER C., Professor of Zoology, University of California.

BUCK, John B., Assistant Professor of Zoology, University of Rochester.

BUDINGTON, R. A., Professor of Zoology, Emeritus, Oberlin College.

BURKENROAD, Martin D., Assistant Curator, Peabody Museum, Yale University.

CANNAN, R. Keith, Professor, New York University College of Medicine.

CHAMBERS, Robert, Research Professor of Biology, Washington Square College, New York University.

CHENRY, Ralph H., Professor of Biology, Long Island University.

CHILD, Ruth C., Assistant Professor, Wellesley College.

CLARK, ELEANOR L., Department of Anatomy, University of Pennsylvania.

CLARK, Eliot R., Professor and Director of Department of Anatomy, University of Pennsylvania, School of Medicine.

CLOWES, G. H. A., Director of Research, Eli Lilly and Company.

CONKLIN, Edwin G., Professor of Biology, Emeritus, Princeton University.

COPELAND, Manton, Professor of Biology, Bowdoin College.

CROASDALE, Hannah T., Technical Assistant, Dartmouth College.

DELBRUCK, Max, Instructor in Physics, Vanderbilt University.

DREYER, Nicholas B., Associate Professor of Pharmacology, Long Island College of Medicine.

Earkin, Richard M., Assistant Professor of Zoology, University of California.

ELIZABETH, Sister M. M., Associate Professor of Biology, Chestnut Hill College.

EVANS, Titus C., Research Assistant Professor of Radiology, State University of Iowa.

FAILLA, G., Physicist, Memorial Hospital.

FISHER, Kenneth C., Assistant Professor of Physiological Zoology, University of Toronto.

FREY, David G., Junior Aquatic Biologist, U. S. Fish and Wildlife Service.

FRISCH, John A., Professor of Biology, Head of Biology Department, Canisius College.

GABRIEL, Mordecai L., Lecturer in Zoology, Columbia University.

GALTSCOFF, Paul S., Biologist in Charge Shellfish Investigation, U. S. Fish and Wildlife Service.

GARREY, W. E., Professor of Physiology, Vanderbilt University School of Medicine.

Giese, Arthur C., Associate Professor of Biology, Stanford University.

GLASER, Otto C., Professor of Biology, Amherst College.

GRAND, C. G., Research Associate, Washington Square College, New York University.

GRANT, Caswell, Professor of Zoology, Emeritus, Washington University.

GUREVICH, Vladimir, Clinical Assistant and Attending Physician, Cornell Division of the Bellevue Hospital.

HAMBURGER, Viktor, Professor of Zoology, Washington University.
HARTMAN, FRANK A., Professor and Chairman Department of Physiology, Ohio State University.

HARVEY, ETHEL B., Research Investigator, Princeton University.

HARVEY, E. NEWTON, Professor of Physiology, Princeton University.

HAUGAARD, G., Research Assistant, Harvard University.

HAYWOOD, CHARLOTTE, Professor of Physiology, Mount Holyoke College.

HEILBRUNN, L. V., Associate Professor of Zoology, University of Pennsylvania.

HENRY, RICHARD J., Medical Student, School of Medicine, University of Pennsylvania.

HEWATT, WILLIS G., Professor of Biology, Texas Christian University.

HILL, SAMUEL E., Professor of Biology, Russell Sage College.

HOPKINS, HOV'T S., Associate Professor of Physiology, New York University College of Dentistry.

HoyE, H. E., Editor, Industrial and Engineering Chemistry.

HAMAN, CHESTER, Research Assistant, New York University.

JACOBS, M. H., Professor of General Physiology, University of Pennsylvania Medical School.

JOHIN, J. M., Associate Professor, Vanderbilt University School of Medicine.

KEPTON, RUDOLF T., Professor of Zoology, Vassar College.

KNOWLTON, FRANK P., Professor of Physiology, Syracuse University, College of Medicine.

KOPAC, M. J., Visiting Assistant Professor of Biology, New York University.

KRAHL, M. E., Research Chemist, Eli Lilly and Company.

LILLIE, RALPH S., Professor of Physiology, Emeritus, The University of Chicago.


LOWENSTEIN, B. E., Research Associate, New York University, Washington Square College.

LUZIA, SALVADOR E., Research Assistant in Surgical Bacteriology, Columbia University.

McBRIDE, ARTHUR F., Curator, Marine Studios Inc.

McCLUNG, C. E., Professor of Zoology, Emeritus, University of Pennsylvania.

MARIAND, DOUGLAS A., Assistant Professor of Biology, Washington Square College, New York University.

MARTIN, WALTER E., Associate Professor of Zoology, DePauw University.

MAST, S. O., Professor of Zoology, Johns Hopkins University.

MATHEWS, A. P., Professor of Biochemistry, Emeritus, University of Cincinnati.

MATTOX, N. T., Assistant Professor of Zoology, Miami University.

MAVER, JAMES W., Professor of Biology, Union College.


MENKIN, VAL, Assistant Professor of Pathology, Harvard Medical School.

METZ, CHARLES W., Head, Department of Zoology, University of Pennsylvania.

MOLTER, JOHN A., Graduate Student, University of Pennsylvania.

MOOC, FLORENCE, Graduate Student, Columbia University.

MORGAN, T. H., Professor of Biology, California Institute of Technology.

NARBUT, S. MILTON, Professor of Biology, Atlanta University.

NACHMANSOHN, DAVID, Research Associate, Columbia University.

O'BRIEN, JOHN A., Instructor in Biology, Catholic University of America.

OSTERHOUT, W. J. V., Member Emeritus, Rockefeller Institute for Medical Research.

PACKARD, CHARLES, Director, Marine Biological Laboratory.

PEIRSON, BERNICE F., Instructor in Biology, National Park College.

PLUGHE, HAROLD H., Professor of Biology, Amherst College.

POLISTER, ARTHUR W., Associate Professor of Zoology, Columbia University.

POMERAT, GERARD R., Instructor in Biology, Harvard University.

RICHARDS, A. GLENN, JR., Instructor in Zoology, University of Pennsylvania.

RIS, HANS, Zoology Department, Columbia University.

RUGH, ROBERTS, Associate Professor, Washington Square College, New York University.

RULON, OLIN, Assistant Professor, Wayne University.

RUNYON, ERNEST H., Associate Professor of Botany, Agnes Scott College.

SCHALCK, WILLIAM B., Biological Laboratories, Harvard University.

SCHAEFFER, A. A., Professor and Chairman of the Department of Biology, Temple University.
SCOTT, Allan C., Assistant Professor of Biology, Union College.
SCOTT, Sister Florence M., Professor of Zoology, Seton Hill College.
SHANNES, Abraham M., Instructor in Physiology, New York University, College of Dentistry.
SHAW, Myrtle, Senior Bacteriologist, New York State Department of Health.
SHELDON, Frederick F., Instructor in Physiology, Ohio State University.
SICHEL, Elsa Keil, Head of the Science Department, Vermont State Normal School.
SHELDON, F. J. M., Assistant Professor of Physiology, University of Vermont, College of Medicine.
SIMPSON, Jennie L. S., Assistant Professor of Botany, Hunter College.
SLIPER, Eleanor H., Assistant Professor, Department of Zoology, State University of Iowa.
SMELSER, George K., Assistant Professor of Anatomy, Columbia University College of Physicians and Surgeons.
Simpson, Stewart, Marine Studios, Inc.
STEINBACH, H. B., Associate Professor of Zoology, Washington University.
STEWART, Dorothy R., Associate Professor of Biology, Skidmore College.
STOKEY, Alma G., Professor Emeritus, Mount Holyoke College.
STUNKARD, Horace W., Professor of Biology, New York University.
TAYLOR, William R., Professor of Botany, University of Michigan.
TEWINKEL, Lois E., Assistant Professor of Zoology, Smith College.
THIVY, Francesca, Graduate Student, University of Michigan.
TURNER, Abby H., Professor of Physiology, Emeritus, Mount Holyoke College.
Von Sallmann, Ludwig J., Assistant Professor in Ophthalmology, College of Physicians and Surgeons, Columbia University.
WATERMAN, Allyn J., Associate Professor of Biology, Williams College.
WENRICH, D. H., Professor of Zoology, University of Pennsylvania.
WENSTRUP, Edward J., Head, Department of Biology, St. Vincent College.
WHITING, F. W., Associate Professor of Zoology, University of Pennsylvania.
WILBUR, Karl M., Instructor, Ohio State University.
WILHELM, Raymond W., Instructor in Zoology, University of Pennsylvania.
WILLIER, B. H., Professor of Zoology, The Johns Hopkins University.
WOLF, E. ALFRED, Associate Professor of Biology, University of Pittsburgh.
WOODRUFF, Lorande L., Professor of Protozoology and Director of the Osborn Zoological Laboratory, Yale University.
WRENCH, Dorothy, Visiting Professor, Smith, Amherst and Mt. Holyoke Colleges.
ZWEIFACH, BENJAMIN W., Research Associate in Biology, New York University.

Beginning Investigators

BRUMMER, Donald L., Student, New York University, College of Medicine.
CLARK, Arnold M., Graduate Student, University of Pennsylvania.
COLE, Edith, Undergraduate Assistant, Pennsylvania College for Women.
DANIEL, Sister Paul, Instructor, Chestnut Hill College.
FERGUSON, Frederick P., Teaching Assistant, University of Minnesota.
GROSC, Daniel S., Assistant Instructor, University of Pennsylvania.
HinCHEY, M. Catherine, Instructor in Biology, Temple University.
Jaeger, Lucena, Graduate Student, Columbia University.
KELCH, Anna K., Research Chemist, Eli Lilly and Co.
LeFevre, Paul G., Research Assistant, University of Pennsylvania.
METZ, Charles B., Teaching Fellow, California Institute of Technology.
NELSON, Leonard, Student, University of Pennsylvania.
SOUTHWICK, Mildred D., Instructor of Plant Science, Vassar College.
TAYLOR, Harriet E., Graduate Assistant, Columbia University.
WATTerson, Ray L., Instructor, Dartmouth College.
WILSON, Walter L., Graduate Student, University of Pennsylvania.
REPORT OF THE DIRECTOR

Research Assistants

ATKINSON, LENETTE R., Research Assistant, Amherst College.
BARRER, AYA J., Senior Student, University of California.
BOND, CHRISTIANA, Secretary, University of Maryland Medical School.
BROWNELL, KATHARINE A., Research Associate, Ohio State University.
BUTLER, MARY K., Research Assistant, University of Pennsylvania.
COOK, ELIZABETH J., Research Assistant, Harvard University.
DYTCH, MARYON M., Graduate Assistant, University of Pittsburgh.
EHRENFIELD, KLAAR, Research Assistant, Amherst College.
GARZOLI, RAY F., Graduate Student, University of California.
HEIDENTHAL, GERTRUDE, Research Assistant, University of Pennsylvania.
HOHWIELER, HAROLD J., Graduate Assistant, Washington University.
JACOBS, JOYE E., Research Assistant, University of Maryland Medical School.
KIBRICK, ANDRE C., Teaching Assistant, New York University Medical College.
KIELICH, E. RANDOLPH, Graduate Assistant, Canisius College.
KAUGELIS, EDITH J., Research Assistant, Columbia University.
LONG, M. JEANNE, Research Assistant, New York University.
MACHADO, ANGELO L., Research Fellow, Yale University Medical School.
MERRITT, FRANCES A., Laboratory Assistant, Eli Lilly & Co.
PHILLIPS, CLYDE, Assistant in Anatomy, Morehouse College.
SMITH, DOUGLAS E., Research Assistant, Ohio State University.
SPIEGELMAN, S., Research Assistant, Washington University.
STEVENS, HAZEL A., Laboratory Assistant, Eli Lilly and Co.
STEVENS, KATHARINE, Student, Vassar College.
WOODWARD, ARTHUR A., Jr., Research Assistant, Wesleyan University.
WURTZ, CHARLES B., Graduate Student Assistant, University of Pittsburgh.

Library Readers, 1942

AMBERSON, WILLIAM R., Professor of Physiology, University of Maryland Medical School.
BECK, L. V., Instructor in Physiology, Hahnemann Medical College.
BELDA, WALTER H., Assistant Professor, Fordham University.
BLOCH, ROBERT, Research Assistant, Yale University.
CASSIDY, HAROLD G., Yale University.
CLARKE, HELEN, Instructor in Zoology, Hunter College of the City of New York.
DIAMOND, LOUIS K., Associate in Pediatrics, Harvard Medical School.
DIAMOND, MOSES, Associate Professor, Columbia University Dental School.
EVERETT, GUY M., Weaver Research Fellow, University of Maryland Medical School.
FOWLER, COLEEN, Johns Hopkins University.
GATES, R. R., Professor, University of London.
HUTCHINGS, LOIS M., Teacher of Biology, Weequahic High School.
JONES, ARTHUR W., Research Fellow in Zoology, University of Virginia.
KREZER, GEORGE L., Assistant Professor of Psychology, Cornell University.
LAVIN, GEORGE, Rockefeller Institute for Medical Research.
LEVINE, PHILIP, Bacteriologist and Serologist, Beth Israel Hospital.
LOEWI, OTTO, Research Professor, New York University College of Medicine.
LUDWIG, FRANCIS W., Instructor, Villanova College.
MEYERHOF, N. OTTO, Research Professor of Biochemistry, University of Pennsylvania.
MITCHELL, PHILIP H., Professor of Biology, Brown University.
NEWELL, JAMES W., Student, Cornell University Medical College.
OSTER, ROBERT H., Assistant Professor of Physiology, University of Maryland Medical School.
RENSHEAW, BIRDSY, Assistant Professor, Oberlin College.
ROBERTS, EDITH, Chairman, Department of Botany, Vassar College.
SEVAG, M. G., Assistant Professor of Biochemistry, University of Pennsylvania School of Medicine.
SHAPIRO, HERBERT, Instructor in Physiology, Hahnemann Medical College.
SCHWARTZMAN, GREGORY, Head of Department of Bacteriology, The Mount Sinai Hospital.
STILES, KARL A., Professor of Biology, Coe College.
Arrowsmith, Harold N., Jr., Student, Johns Hopkins University.
Behnke, Jane, Student, Wellesley College.
Booth, Mary L., Student, Smith College.
Hitchcock, Margaret V., Goucher College.
Kingsley, Eunice L., Assistant Prof. of Botany, Kansas State College.
Richardson, Edward A., Graduate Assistant, Rutgers University.
Young, Margaret E., Assistant in Botany, Wellesley College.

Embryology
Beardsley, Margaret, Smith College.
Boss, Mary B., Goucher College.
Buggs, Charles W., Prof. of Biology and Head, Division of the Sciences, Dillard University.
Carpenter, Elizabeth, Graduate Assistant, Mount Holyoke College.
Churchill, Warren S., Assistant in Zoology, University of Illinois.
Cole, Edith, Undergraduate Assistant, Pennsylvania College for Women.
Dodd, Samuel G., Wesleyan University.
Dunn, Barbara, Graduate Assistant, Wellesley College.
Elia, Catherine, Volunteer Laboratory Assistant, Connecticut College.
Foster, James J., Graduate Assistant, Amherst College.
Gajdusek, D. Carleton, Student, University of Rochester.
Geisler, Sister Francis S., S.S.J., Student, Catholic University.
Littrell, June L., Assistant, University of Illinois.
Memhard, Allen R., Crescent Road, Riverside, Conn.
Newfand, Dorothy, Mount Holyoke College.
Nickerson, Mark, Graduate Assistant, Johns Hopkins University.
Philbrick, Madeline G., Russell Sage College.
Poirneter, Joan, Smith College.
Prodoll, John H., Brothers College of Drew University.
Reyer, Randall W., Cornell University.
Seitner, Margaret M., Hunter College of the City of New York.
Senyard, Juanita, Graduate Assistant, Mount Holyoke College.
Shea, Samuel E., Jr., Student Laboratory Instructor, Canisius College.
Wood, Marcia, Student, Russell Sage College.

Physiology
Christiansen, Gertrude M., Assistant, Wellesley College.
Hardenbergh, Esther, Student, Mount Holyoke College.
Larson, Virginia P., Assistant in Physiology, Vassar College.
Low, Eva M., Student, Radcliffe College.
Poker, Nathan, Brooklyn College.

Zoology
Avila, Enrique, Compania Administradora del Guano, Lima, Peru.
Benson, John A., Undergraduate Assistant, Wesleyan University.
Brearley, Margery, Graduate Student, Mount Holyoke College.
Chronian, Walter, Massachusetts State College.
Cole, Elsie L., Heidelberg College.
Cole, M. Ethel, Teacher, Frick Educational Commission.
Collard, LaVerne E., Oberlin College.
Cosby, Evelyn L., Laboratory Instructor in Botany, University of Richmond.
3. TABULAR VIEW OF ATTENDANCE

<table>
<thead>
<tr>
<th></th>
<th>1938</th>
<th>1939</th>
<th>1940</th>
<th>1941</th>
<th>1942</th>
</tr>
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<tbody>
<tr>
<td>Investigators—Total</td>
<td>380</td>
<td>352</td>
<td>386</td>
<td>337</td>
<td>201</td>
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<tr>
<td>Independent</td>
<td>246</td>
<td>213</td>
<td>253</td>
<td>197</td>
<td>132</td>
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<tr>
<td>Under instruction</td>
<td>53</td>
<td>60</td>
<td>62</td>
<td>59</td>
<td>16</td>
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<tr>
<td>Research assistants</td>
<td>81</td>
<td>79</td>
<td>71</td>
<td>50</td>
<td>25</td>
</tr>
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<td>Library readers</td>
<td>31</td>
<td>31</td>
<td>31</td>
<td>28</td>
<td>28</td>
</tr>
</tbody>
</table>

| Students—Total       | 132  | 133  | 128  | 131  | 74   |
| Zoology              | 54   | 55   | 55   | 55   | 36   |
| Protozoology (not given after 1940) | 10 | 12 | 7 | — | — |
| Embryology           | 34   | 36   | 34   | 37   | 24   |
| Physiology           | 22   | 21   | 22   | 24   | 6    |
| Botany               | 12   | 9    | 10   | 15   | 8    |
| Total Attendance     | 512  | 485  | 514  | 468  | 275  |

Less persons registered as both students and investigators | 16 | 14 | 7 | 7 | 2 |

| Institutions Represented—Total | 151 | 162 | 148 | 144 | 126 |
| By investigators               | 125 | 132 | 112 | 102 | 83  |
| By students                    | 67  | 72  | 79  | 72  | 43  |

| Schools and Academies Represented | | | | | |
| By investigators                 | 4   | 2   | 1   | 5   | 2   |
| By students                      | 1   | 2   | 2   | 2   | 0   |

| Foreign Institutions Represented | | | | | |
| By investigators                 | 14  | 8   | 2   | 3   | 0   |
| By students                      | 3   | 1   | 1   | 1   | 0   |
4. SUBSCRIBING AND CO-OPERATING INSTITUTIONS

1942

Amherst College
Atlanta University
Beth Israel Hospital
Biological Institute, Philadelphia, Pennsylvania
Bowdoin College
Brooklyn College
Brown University
Bryn Mawr College
Canisius College
College of Physicians and Surgeons
Columbia University
Cornell University
Cornell University Medical College
Drew University
Duke University
Fordham University
Frick Educational Commission
Goucher College
Harvard University
Harvard University Medical School
Heidelberg College
Hunter College
Industrial and Engineering Chemistry, of the American Chemical Society
John and Mary Markle Foundation
Johns Hopkins University
Julius Rosenwald Fund
Eli Lilly and Co.
Long Island University
Marine Studios, Inc.
Massachusetts State College
Morehouse College
Mount Sinai Hospital, New York City
National Research Council
New York State Department of Health
New York University
New York University College of Medicine
New York University Washington Square College
Oberlin College
Ohio State University
Pennsylvania College for Women
Princeton University
Radcliffe College
Rockefeller Institute for Medical Research
Russell Sage College
Rutgers University
St. Joseph's Seminary, Dunwoodie, New York
Smith College
State University of Iowa
Sweet Briar College
Syracuse University
Tufts College
Union College
University of Cincinnati
University of Illinois
University of Maryland Medical School
University of Missouri
University of Pennsylvania
University of Pennsylvania School of Medicine
University of Pittsburgh
University of Rochester
Vanderbilt University
Vanderbilt University Medical School
Vassar College
Villanova College
Washington University
Wellesley College
Wesleyan University
Wheaton College
Woods Hole Oceanographic Institution
Yale University

5. EVENING LECTURES, 1942

Friday, June 26
DR. MICHAEL HEIDELBERGER .......... "Biological Aspects of Immunity and Complement Action."

Friday, July 3
DR. DONALD R. GRIFFIN .......... "Echo Sounding by Flying Bats."

Friday, July 10
DR. R. RUGGLES GATES ............ "The Nucleolus and Phylogeny."

Friday, July 17
DR. E. NEWTON HARVEY ............ "Animal Luminescence."

Friday, July 24
MR. PER HÖST ................. "Norway Fights On."

Friday, July 31
DR. DAVID NACHMANSOHN .........."On the Mechanism of Transmission of Nerve Impulses."
Friday, August 7
PROF. SELMAN A. WAKSMAN .........."Science in Soviet Russia on the Eve of the World War."
Friday, August 14
DR. A. GLENN RICHARDS, JR. .........."Electron Microscope Studies of Insect Structures and Tissues."
Friday, August 21
DR. ROBERT F. GRIGGS ............."Timber Lines as Indices of Climatic Change."
Thursday, August 27
DR. OSCAR W. RICHARDS ............"The Precision of Sectioning with a Microtome."
Friday, August 28
DR. C. W. METZ ......................"Evolutionary Chromosome Changes in Sciara as Shown by the Giant Salivary Gland Chromosomes."

6. SHORTER SCIENTIFIC PAPERS, 1942
Tuesday, July 21
DR. K. C. FISHER AND GRACE W. SCOTT .........."The physiological basis of temperature 'selection' by fish."
DR. J. R. STERN AND K. C. FISHER .........."The action of narcotics on oxygen consumption of resting and caffeinized frog muscle."
DR. A. C. GIESE AND E. L. TATUM .........."Effects of vitamins of the B-complex on respiration of Neurospora mutants."
Tuesday, August 4
MR. SOL SPIEGELMAN ..............."Differential effects on the mass and time of appearance of regenerants in Tubularia."
MISS FLORENCE MOOG .........."Some effects of temperature in the regeneration of Tubularia."
DR. MORDECAI GABRIEL .........."The effect of temperature on vertebral variations in Fundulus heteroclitus."
Tuesday, August 18
DR. DOROTHY WRINCH ..............."The structure of biologically active membranes."
DR. DOUGLAS MARSLAND .........."The contractile mechanism in unicellular melanophores."
DR. E. H. RUNYON .........."The aggregation of separate cells of Dictyostelium to form a multicellular body."
Tuesday, August 25
DR. G. M. EVERETT .........."Vitamin B deficiency in the cat. " Motion pictures in color.
DR. T. H. BISSONNETTE .........."Experimental modification of molts, and color-changes by controlled lighting of the Bonaparte weasel."
7. MEMBERS OF THE CORPORATION, 1942

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REPORT OF THE DIRECTOR

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GUDERMATSCH, J. FREDRICK, New York University, 100 Washington Square, New York City, New York.
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GUYER, PROF. M. F., University of Wisconsin, Madison, Wisconsin.
HAGUE, DR. FLORENCE, Sweet Briar College, Sweet Briar, Virginia.
HALL, PROF. FRANK G., Duke University, Durham, North Carolina.
HAMBURGER, DR. VIKTOR, Department of Zoology, Washington University, St. Louis, Missouri.
HANCE, DR. ROBERT T., Department of Biology, Duquesne University, Pittsburgh, Pennsylvania.
HARGITT, PROF. GEORGE T., Department of Zoology, Duke University, Durham, North Carolina.
HARMAN, DR. MARY T., Kansas State Agricultural College, Manhattan, Kansas.
HARPER, PROF. R. A., R. No. 5, Bedford, Virginia.
HARRISON, PROF. ROSS G., Yale University, New Haven, Connecticut.
HARTMAN, DR. FRANK A., Hamilton Hall, Ohio State University, Columbus, Ohio.
REPORT OF THE DIRECTOR

Harvey, Dr. E. Newton, Guyot Hall, Princeton University, Princeton, New Jersey.
Harvey, Dr. Ethel Browne, 48 Cleveland Lane, Princeton, New Jersey.
Hayden, Dr. Margaret A., Wellesley College, Wellesley, Massachusetts.
Hayes, Dr. Frederick R., Zoological Laboratory, Dalhousie University, Halifax, Nova Scotia.
Haywood, Dr. Charlotte, Mount Holyoke College, South Hadley, Massachusetts.
Hazen, Dr. T. E., Barnard College, Columbia University, New York City, New York.
Hecht, Dr. Selig, Columbia University, New York City, New York.
Heilbrunn, Dr. L. V., Department of Zoology, University of Pennsylvania, Philadelphia, Pennsylvania.
Hendee, Dr. Esther Crissey, Russell Sage College, Troy, New York.
Henshaw, Dr. Paul S., National Cancer Institute, Bethesda, Maryland.
Hess, Prof. Walter N., Hamilton College, Clinton, New York.
Hibbard, Dr. Hope, Department of Zoology, Oberlin College, Oberlin, Ohio.
Hill, Dr. Samuel E., Department of Biology, Russell Sage College, Troy, New York.
Hinrichs, Dr. Marie, Department of Physiology and Health Education, South Illinois Normal University, Carbondale, Illinois.
Hisaw, Dr. F. L., Harvard University, Cambridge, Massachusetts.
Hoadley, Dr. Leigh, Harvard University, Cambridge, Massachusetts.
Höber, Dr. Rudolf, University of Pennsylvania, Philadelphia, Pennsylvania.
Hodge, Dr. Charles, IV, Temple University, Department of Zoology, Philadelphia, Pennsylvania.
Hogue, Dr. Mary J., University of Pennsylvania Medical School, Philadelphia, Pennsylvania.
Hollander, Dr. Alexander, c/o National Institute of Health, Laboratory of Industrial Hygiene, Bethesda, Maryland.
Hooker, Prof. Davenport, University of Pittsburgh, School of Medicine, Department of Anatomy, Pittsburgh, Pennsylvania.
Hopkins, Dr. Dwight L., Mundelein College, 6363 Sheridan Road, Chicago, Illinois.
Hopkins, Dr. Hoyt S., New York University, College of Dentistry, New York City, New York.
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Hoyt, Dr. William D., Washington and Lee University, Lexington, Virginia.
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