

# THE OHIO JOURNAL OF SCIENCE

Vol. XLIII

JULY, 1943

No. 4

## ANNUAL REPORT OF THE OHIO ACADEMY OF SCIENCE 1943

### THE OHIO ACADEMY OF SCIENCE

Organized 1891

Incorporated 1892

Affiliated with the American Association for the Advancement of Science

### OFFICERS AND COMMITTEES FOR 1943-1944

#### *President*

H. C. SHETRONE

#### *Vice-Presidents*

- |   |  |
|---|--|
| A. <i>Zoology</i> : H. R. EGGLESTON             | G. <i>Geography</i> : C. C. HUNTINGTON   |
| B. <i>Plant Sciences</i> : FREEMAN S. HOWLETT   | H. <i>Chemistry</i> : H. J. GARBER       |
| C. <i>Geology</i> : JOHN W. WELLS               | I. <i>Mathematics</i> : R. E. MANCHESTER |
| D. <i>Medical Sciences</i> : E. W. E. SCHEAR    | J. <i>Junior Academy</i> : PHILIP DYE    |
| E. <i>Psychology</i> : A. C. ANDERSON           | K. <i>Anthropology</i> : WILLIAM LIPKIND |
| F. <i>Physics and Astronomy</i> : E. H. JOHNSON |  |

#### *Secretary*

A. W. LINDSEY

#### *Treasurer*

CLARENCE E. TAFT

#### *Historian*

WILLIAM H. ALEXANDER

#### *Executive Committee*

*Ex-Officio*: H. C. SHETRONE, A. W. LINDSEY AND C. E. TAFT

*Elective*: EUGENE VAN CLEEF AND GLENN W. BLAYDES

#### *Trustees of the Research Fund*

HERBERT OSBORN, <i>Chairman</i> , term expires.....	1944
F. C. BLAKE, term expires.....	1945
M. E. STICKNEY, term expires.....	1946

*Library Committee*MRS. ETHEL M. MILLER, *Chairman*

Librarian in charge of Academy Exchanges and Publications

WARREN P. SPENCER, term expires.....	1944
WILLIAM LLOYD EVANS, term expires.....	1945

*Committee on Conservation\**

G. W. CONREY, term expires.....	1944
PAUL B. SEARS, term expires.....	1944
E. L. WICKLIFF, term expires.....	1944
E. LUCY BRAUN, term expires.....	1945
E. S. THOMAS, term expires.....	1945
WILBER STOUT, term expires.....	1945
ROSCOE W. FRANKS, term expires.....	1946
T. H. LANGLOIS, <i>Chairman</i> , term expires.....	1946

*Committee on Nominations for 1943-1944*THE VICE-PRESIDENTS OF 1942-1943—ROBERT M. GEIST, *Chairman**Membership Committee for 1943-1944*

A. <i>Zoology</i> : MARION BOESEL, <i>Chairman</i>	G. <i>Geography</i> :†
B. <i>Plant Sciences</i> : W. E. STEIDTMANN	H. <i>Chemistry</i> : R. G. BOSSERT
C. <i>Geology</i> : H. A. IRELAND	I. <i>Mathematics</i> : E. I. YOWELL
D. <i>Medical Sciences</i> : L. F. EDWARDS	J. <i>Junior Academy</i> : NELSON CRITES
E. <i>Psychology</i> : ARTHUR G. BILLS	K. <i>Anthropology</i> : RICHARD G. MORGAN
F. <i>Physics and Astronomy</i> : C. W. JARVIS	

*Academy Representatives*

- On the Joint Administrative Board of the Ohio Journal of Science:
 

WARREN P. SPENCER, term expires.....	1944
WILLIAM LLOYD EVANS, term expires.....	1945
- On the Council of the A. A. A. S.: A. W. LINDSEY.
- On the Save-Outdoor-Ohio Council: ROSCOE W. FRANKS.

*The Council for 1943-1944*

ANDERSON, A. C.	HOWLETT, FREEMAN S.	MORGAN, RICHARD G.
BILLS, ARTHUR G.	HUNTINGTON, C. C.	OSBORN, HERBERT
BLAYDES, GLENN W.	IRELAND, H. A.	SHEAR, E. W. E.
BOESEL, MARION	JARVIS, C. W.	SHETRONE, H. C.
BOSSERT, R. G.	JOHNSON, E. H.	SPENCER, WARREN P.
CRITES, NORMAN	KRECKER, F. H.	STEIDTMANN, W. E.
DYE, PHILIP	LANGLOIS, T. H.	TAFT, C. E.
EDWARDS, L. F.	LINDSEY, A. W.	VAN CLEEF, EUGENE
EGGLESTON, H. R.	LIPKIND, WILLIAM	WELLS, JOHN W.
EVANS, WILLIAM LLOYD	MANCHESTER, R. E.	YOWELL, E. I.
GARBER, H. J.	MILLER, JOHN A.	

\*One of the three names presented by the nominating committee for membership on this committee does not appear in the membership list of the Academy, hence only two members serving until 1946 can be included at present.

†The Vice-President-elect of Section G found it impossible to accept the office, hence the membership committeeman has been advanced to the vice-presidency, leaving his post to be filled.

## REPORT OF THE FIFTY-THIRD ANNUAL MEETING OF THE OHIO ACADEMY OF SCIENCE

The Council thought seriously this year of suspending the annual meeting because of the war, but finally decided that organizations of lesser geographic extent could fill an even more important place while national groups are so generally abandoning their meetings. The annual meeting was therefore planned to take place on the campus of the Ohio State University on the last two days of April and the first of May, 1943.

The session opened with a meeting of the Executive Committee at 2:30 P. M., April 29, followed by the annual meeting of the Council.

In place of the Thursday evening lecture presented in recent years, the Academy accepted the invitation of the local chapter of the Society of the Sigma Xi to attend a lecture by Professor Peter Debye of Cornell University on "The Magnetic Approach to the Absolute Zero of Temperature," and the invitation of the Columbus Audubon Society to hear Dr. Donald J. Borror of the Ohio State University in a lecture on "How to Identify Birds."

The sectional meetings occupied Friday. The Mathematics Section presented no program, since mathematicians of the region had already shared in a meeting earlier in April, and the Physics Section did not meet independently because of the opportunity to participate in the program of the American Physical Society. The Junior Academy presented its usual excellent program on the following day. With these exceptions Friday's programs surpassed the Council's expectations and provided ample proof of the worth of state meetings under existing conditions. The printed program shows a total of 95 papers varying in length from ten minutes to an hour, and three symposia, one a general meeting on conservation and two in the sections of geography and chemistry on the special problems of wartime teaching.

In addition to this portion of the program, the Ohio State Museum presented a number of interesting special exhibits.

The banquet was served in the Faculty Club to approximately one hundred members. Dr. Roderick Peattie, as toastmaster, presided genially, presenting first, President Howard L. Bevis of the Ohio State University in a brief greeting. In a week flooded with such occasions, President Bevis graciously divided his evening between the Physical Society and the Academy. Dr. Clarence Ward of Oberlin College responded for the Academy in the cultured and scholarly manner that his friends know always to expect from him.

Following the excellent dinner President Krecker delivered his retiring address on "Woods and Trees," emphasizing brilliantly the broader opportunities of his field, biology, and painting an optimistic picture of the future of man.

In the annual business meeting the one amendment to the constitution was adopted, creating a new class of Honorary Life Members, and three members were elected to the new rank under suspension of the time limit cited in the amendment. These members are:

ALEXANDER, WILLIAM H.  
MOSELEY, E. L.  
OSBORN, HERBERT.

Dr. S. R. Williams read a brief statement in place of the finished report of the Committee on Necrology to be supplied later for publication.

The report from the Council, read by the Secretary, included a list of thirty-three new members and thirteen fellows. Those elected to fellowship are:

BILLS, ARTHUR G.	HENDRICKSON, GORDON	SCOFIELD, HERBERT T.
CASTER, KENNETH E.	MATHEWS, C. O.	STECKLE, LYNDE C.
COLE, L. E.	MILLER, JOSEPH N.	VAUGHN, JAMES
COOPER, JOHN R.	RIEVESCHL, GEORGE, JR.	WARNER, EDWARD N.
DEXTER, RALPH W.		

Dr. Ira Wilson presented the report of the Committee on Resolutions, expressing the Academy's appreciation to our hosts for a very successful, pleasant and ably managed meeting.

Respectfully submitted,

A. W. LINDSEY, *Secretary.*

## REPORT OF THE TREASURER

COLUMBUS, OHIO, May 3, 1943.

*To the Ohio Academy of Science:*

I submit herewith a financial statement of the condition of the Ohio Academy of Science as of December 31, 1942. The books have been audited and the opinion of the auditor is herewith attached.

Respectfully submitted,

CLARENCE E. TAFT, *Treasurer.*

## EXHIBIT A

## OHIO ACADEMY OF SCIENCE BALANCE SHEET AS AT DECEMBER 31, 1942

## ASSETS

## CURRENT EXPENSE FUND:

Cash on Hand.....	\$ 20.00
Cash in Bank.....	1,008.67
Total Cash.....	<u>\$1,028.67</u>

## DUES RECEIVABLE:

1939.....	\$ 25.00
1940.....	95.00
1941.....	217.50
1942.....	<u>412.50</u>

Total Dues Receivable.....	750.00
Interest Receivable.....	19.50
Bonds—Consolidated Federal Farm Loan.....	<u>1,300.00</u>
Total Assets—Current Expense Fund.....	<u>\$3,098.17</u>

## RESEARCH FUND:

Cash in Bank.....	\$ 284.78
Capital Stock—Banc-Ohio Securities Company (cost).....	437.50
Bonds—Fort Hayes Hotel, Columbus, Ohio (cost).....	<u>1,300.00</u>

Total Assets—Research Fund.....	<u>2,022.28</u>
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TOTAL ASSETS.....	<u>\$5,120.45</u>
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## LIABILITIES, DEFERRED CREDITS AND NET WORTH

## LIABILITIES:

Accounts Payable (Subscriptions Journal of Science).....	\$ 750.00
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## DEFERRED CREDITS TO INCOME:

Reserve for Uncollected Dues Receivable.....	\$ 750.00
1943 Dues Collected in 1942.....	<u>20.00</u>

Total Deferred Credits to Income.....	<u>770.00</u>
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Total Liabilities and Deferred Credits to Income.....	<u>\$1,520.00</u>
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## NET WORTH:

Ohio Academy of Science:	
Current Expense Fund—Surplus.....	\$1,478.17
Reserve for Investment.....	<u>100.00</u>

Total Net Worth—Current Expense Fund.....	<u>\$1,578.17</u>
Research Fund—Surplus.....	<u>2,022.28</u>

Total Net Worth (Schedule 1).....	<u>3,600.45</u>
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TOTAL LIABILITIES, DEFERRED CREDITS AND NET WORTH.....	<u>\$5,120.45</u>
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## EXHIBIT B

## OHIO ACADEMY OF SCIENCE STATEMENT OF INCOME AND EXPENSE

## CURRENT EXPENSE FUND

For the year ending December 31, 1942

## INCOME:

Dues for the year 1942.....	\$1,287.00
Grants for Research.....	157.50
Sale of Publications.....	38.09
Gift for Investment.....	100.00
Interest on Bonds.....	39.00
Total Income.....	<u>\$1,621.59</u>

## OPERATING EXPENSES:

Clerical Assistance.....	\$ 25.00
Postage and Telegraph.....	110.46
Office Supplies and Expenses.....	83
Expenses—Officers to Meetings.....	24.59
Expenses—Speakers.....	25.00
Printing:	
Proceedings of Ohio Journal of Science.....	\$233.24
Other.....	126.92
	<u>360.16</u>
Research Grants.....	157.50
Subscriptions to Ohio Journal of Science.....	750.00
Secretary's Honorarium.....	100.00
Safety Deposit Box Rent.....	3.60
Bond for Treasurer.....	5.00
Auditing Expense.....	15.00
Bank Charges.....	6.96
Total Operating Expenses.....	<u>1,584.10</u>
Net Operating Income.....	\$ 37.49

## OTHER INCOME:

Dues Collected for Prior Years:	
1939.....	\$ 17.50
1940.....	62.50
1941.....	122.50
	<u>202.50</u>
Total Dues Prior Years.....	202.50
NET INCOME FOR THE YEAR.....	<u>\$ 239.99</u>

## EXHIBIT C

OHIO ACADEMY OF SCIENCE STATEMENT OF CASH RECEIPTS AND DISBURSEMENTS  
(CURRENT EXPENSE FUND)

For the year ending December 31, 1942

CASH BALANCE—December 31, 1941.....	\$ 262.43
DEPOSITS FOR THE YEAR:	
Dues 1939.....	\$ 17.50
Dues 1940.....	62.50
Dues 1941.....	122.50
Dues 1942.....	1,258.00
Dues 1943.....	20.00
Research Grants.....	157.50
Federal Farm Loan Interest Coupons.....	58.50
Sale of Publications.....	38.09
Gifts and Grants for Investment.....	100.00
Total Deposits, 1942.....	1,834.59
Total Cash to be Accounted for.....	\$2,097.02
DISBURSEMENTS (Checks Written):	
Accounts Payable.....	\$234.25
Clerical Assistance.....	25.00
Postage.....	110.46
Office Expense and Supplies.....	.83
Expense of Officers to Meetings.....	24.59
Printing.....	360.16
Research Grants.....	157.50
Secretary's Honorarium.....	100.00
Speakers Honorarium.....	25.00
Safety Deposit Box.....	3.60
Bond for Treasurer.....	5.00
Auditing Expense.....	15.00
Bank Charges.....	6.96
Total Disbursements.....	1,068.35
CASH BALANCE—December 31, 1942.....	\$1,028.67
Cash on Hand—December 31, 1942.....	\$ 20.00
Cash in Bank—December 31, 1942.....	1,008.67
TOTAL CASH.....	\$1,028.67

## AUDITOR'S CERTIFICATE

COLUMBUS, OHIO, May 1, 1943.

*The Ohio Academy of Science,  
Columbus, Ohio.*

## GENTLEMEN:

In accordance with your instructions, I have audited the accounts and records of the Treasurer of the Ohio Academy of Science for the year ended December 31, 1942.

I did not audit the accounts shown in the Research Fund. They are presented as submitted by Dr. Herbert Osborn to the Treasurer of the Ohio Academy of Science.

Subject to the foregoing qualification and based upon such examination, in my opinion the accompanying Balance Sheet, Statement of Income and Expense, and supporting statements and schedules fairly present the financial position of the Ohio Academy of Science at December 31, 1942, and the results of operations for the year ended on that date.

Respectfully yours,

DANIEL M. SHONTING,  
*Certified Public Accountant.*

## REPORT OF THE TRUSTEES OF THE RESEARCH FUND

The Research Fund of the Academy had a balance of \$210.53 in the checking account at the beginning of the year 1942 and as no grants were made from this fund and additions amounted to \$74.25, the balance on deposit at the Ohio National Bank was \$284.78.

## SUMMARY OF RECEIPTS AND ASSETS

Balance in Bank as of December 31, 1941.....	\$ 210.53
Receipts from Interest, etc.....	74.25
Total.....	\$ 284.78
Disbursements.....	0.00

Balance in Checking Account December 31, 1942..... \$ 284.78

## ASSETS

Bonds (at cost).....	\$1,300.00
BancOhio Stock (at cost).....	437.50
Cash on Deposit, Ohio National Bank.....	284.78
Total.....	\$2,022.28

The grant of \$152.00 from the A. A. A. S. for 1942 was by approval of the trustees allotted to Drs. Wolfe, Scofield and Wareham for continuation of their microclimatic studies in Hocking County and a similar grant from the A. A. A. S. for 1943 of \$172.00 has been allotted by our approval, \$100.00 to Drs. Wolfe, Scofield and Wareham for further continuation of their project in Hocking County, and \$72.00 to Dr. Carl Venard for studies of the mosquito populations in Ohio.

It should be noted that the allowances from the A. A. A. S. are expected to be allotted and spent within the year and as these allotments are made on approval of the Trustees of the Research Fund, applications are desired in advance for the anticipated allowance for 1944.

The addition of \$36.50 to the balance of last December from later receipts gives us a balance of \$321.28 on deposit and unless there are requests for grants for worthy projects from the Academy fund it would seem desirable to invest a part of this balance and we would suggest purchase of U. S. War Bonds if approved by the Academy.

Respectfully submitted,

HERBERT OSBORN, *Chairman*,  
PAUL B. SEARS,  
F. C. BLAKE.

*Trustees*

## REPORT OF THE EXECUTIVE COMMITTEE AND COUNCIL

The Executive Committee held two meetings during the year, one on November 21, 1942, and one on April 30, 1943, just preceding the annual meeting of the Council, whose first meeting took place on January 16. Since actions of the Executive Committee other than minor routine details are presented to the Council for action, the following report may embrace the significant transactions of both groups.

The discussion of the desirability of an annual meeting of the Academy was brought to an affirmative end that seems to have been amply justified. We may anticipate the continuation of these meetings during the war.

During the year the Academy received a bequest of \$100.00 from the estate of Hermine Z. Hansen. The Council approved the addition of \$12.50 to this sum, \$11.00 of which was used, the total to be invested in Victory Bonds of \$150.00 face value.

At the first meeting of the Council a suggestion from the Botany Section that its name be changed to the Plant Science Section was approved. The Section voted this change at its annual meeting.

A proposal from President Kreeker to extend the interest of the Academy in Conservation to the human species was discussed in both meetings of the Council, culminating in the approval of a committee to work on the subject during a period of five years. For this period the com-

mittee is to consist of Dr. L. H. Snyder as chairman, Dr. R. A. Hefner, Dr. W. P. Spencer, and two other members, one a physician, to be appointed by the president. This committee is to be a pioneer organization in surveying the possible field of activity, and is to report to the Council at its next annual meeting. At the end of the five-year period it is hoped that the committee may suggest plans for its own future.

The Council also considered the problem of investment of permanent funds and asked the Treasurer, aided by one other member, to study the subject in the interest of security and satisfactory yield for the benefit of our membership.

An important attainment of the year is the settlement of the long-standing discrepancy in the publication accounts of the Academy and the Ohio Journal of Science and in the establishment of definite regulations for the future. These regulations provide that members in arrears at the time of the annual meeting, or on May 1 if no meeting is held, shall be dropped from the mailing list of the Journal until arrears are paid.

The Council voted unanimously to carry with deferred memberships all members of the armed services of the United States for the duration of the war. Dues will not be charged during this period and the members concerned may resume their active membership when they return to civilian life by paying the dues current at that time.

The Council calls attention of all members to the prosperous condition of our research fund, with a balance of over \$300.00 subject to application in addition to approximately \$150.00 available annually from the A. A. S. Applications for grants should be addressed to Dr. Herbert Osborn, Chairman of the Trustees of the Research Fund, who may be reached during the summer and early autumn at the Ohio State University.

The Council also adopted a provision that sections failing to participate in three successive meetings of the Academy shall be dropped, since such a failure may be taken to indicate that the members feel no need for the organization.

Respectfully submitted,

A. W. LINDSEY, *Secretary*.

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#### REPORT OF THE JOINT ADMINISTRATIVE BOARD OF THE OHIO JOURNAL OF SCIENCE

COLUMBUS, OHIO, April 3, 1943.

*To the Ohio Academy of Science:*

The annual meeting of the Joint Administrative Board of the Ohio Journal of Science was held at the Ohio State University April 3, 1943. Present were Drs. Snyder and White, representing the Ohio State University; Drs. Spencer and Ray, representing the Academy; and Drs. Blaydes and Miller, representing the Journal. In the absence of the Chairman, Dr. Patrick, Dr. Spencer nominated Dr. Snyder to act as Chairman; seconded by Dr. Ray. The motion carried.

Dr. Snyder called the meeting to order at 11:00 A. M. The minutes of the preceding meeting were read and approved.

The editor's report, given by Dr. Blaydes, included an analysis and summary of the manuscripts on hand. Thirty-three papers have been accepted and are available for publication. In addition manuscripts of special interest are being solicited with plans to include them in forthcoming issues.

The following motion was presented by Dr. Ray and seconded by Dr. Snyder:

Upon the receipt of an acceptable paper from an Ohioan, who is not a member of the Academy, the editor shall enclose a membership blank along with the acceptance of the paper.

The motion was carried.

The acceptance of the editor's report was moved by Dr. Ray and seconded by Dr. Spencer. The motion was carried.

The business manager's report was given by Dr. Miller. The financial statement follows:

## THE OHIO JOURNAL OF SCIENCE—FISCAL YEAR 1942

## RECEIPTS

Balance from 1942.....	\$ 186.43
University Allowance.....	750.00
Ohio Academy of Science—pro rata of Dues.....	611.00
Ohio Academy of Science—Proceedings.....	233.24
Subscriptions.....	83.00
Sale of Back Numbers.....	43.75
Author's Payments for Plates.....	130.20
Payment by Author of Publication Costs.....	40.00
	<hr/>
	\$2,077.62

## EXPENDITURES

Spahr and Glenn Co., Printing Vol. 42 and Envelopes and Stationery.....	\$1,530.10
Bucher Engraving Company.....	286.42
Postmaster.....	41.19
Bank Charges.....	3.94
Refund to Franklin Square Agency.....	.68
	<hr/>
	\$1,862.33
Balance on hand January 28, 1942 (Huntington National Bank).....	215.29
	<hr/>
	\$2,077.62

Drs. Snyder and White were appointed as auditors. Dr. Spencer moved the acceptance of the business manager's report; seconded by Dr. White. The motion was carried.

A motion by Dr. Ray; seconded by Dr. White, was that Drs. Snyder, Blaydes, and Miller be empowered to select an assistant business manager. The motion was carried.

The committee adjourned at 2:00 P. M.

Respectfully submitted,

JOHN A. MILLER,  
*Secretary of the Board.*

## REPORT OF THE LIBRARY COMMITTEE

COLUMBUS, OHIO, April 27, 1943.

*To the Council of the Ohio Academy of Science:*

The past year has been so uneventful in library work that it has not even been necessary to bring any matters to the attention of the other members of this committee. Claiming numbers of journals that failed to arrive, posting individual issues of our own journal, keeping the mailing list correct, and making a few sales have been about the extent of the work during the entire year.

The sales of publications amounted to \$31.15 including tax. This sum, with an itemized statement, has been given to the Treasurer. One sale was for more than \$22.00, as a southern university which owned a few scattered numbers of the Proceedings purchased all the remaining numbers in order that it might have a complete set. Thirteen other sales were made, consisting of sixteen copies of eight different Special Papers. Eight of the fourteen sales were to people in Ohio and one each of these places, Connecticut, New York, Washington, D. C., Louisiana, Michigan, and Wisconsin. The sales have been increasing somewhat each year since the all-time low of \$7.65 in 1939.

Last year the members of this committee considered ways to circulate more of the stock of the Academy publications. Two plans were suggested and the results were to be reported this year. One plan was to send the price list to book dealers, as it had been some years since this had been done. Accordingly a new list was mimeographed and copies were posted to thirteen dealers, but with no results so far. The other plan was to make use of the new Union List of Serials which was to appear in the summer of 1942, in order to ascertain the various numbers of the Proceedings which were lacking in the libraries listed in it and offer to supply them on a sale or an exchange basis as the case might be. As the publication of the new Union List was postponed, this plan could not be carried out, but it will be whenever the List is published and its results will be reported to the Council.

Very few foreign exchanges are being received and on our part we are not posting the Ohio

Journal of Science outside our own country except to Canada. New exchanges have been received during the year from Mexico City, San Salvador, and Harvard University.

Respectfully submitted,

ETHEL MELSHEIMER MILLER, *Chairman.*

#### REPORT OF THE COMMITTEE ON NECROLOGY

##### *To the Ohio Academy of Science:*

Our roster of members has been depleted during the closing academy year by the decease of six members; one of whom had been a member about thirty years, one about twenty years, three about ten years, and one only one year. Each is a distinct loss to science and to the Academy. The youngest, Dr. Pierstorff, was born in 1895, Dr. Inman five years earlier. Messrs. Mathewson and Matheny were each about sixty, and Mr. Chase and Miss Nichols seventy.

SUSAN PERCIVAL NICHOLS was born in Maine in 1873, completed her public school and was graduated from Cornell University in 1898. She was a fellow in Botany at Cornell the next year and had an American University Woman's table at Naples Zoological Station. After two years of teaching at Houghton Seminary, New York, she was a fellow at Wisconsin, 1902-03, and was given the Ph.D degree there in 1904. For four years she taught in a private school in Kentucky and then began her life work as instructor in Botany in Oberlin College. She rose through the ranks to a professorship in 1925, and after several years as head of her department, retired in 1938.

Dr. Nichols was modest and retiring, a keen observer, a skillful technician in spite of the physical handicap of a withered arm, an inspiring teacher, a clear thinker and consistent research worker. Although always teaching a full schedule she brought several studies to fruition, presented her results to scientific societies, and published them. These characteristics and performance made a deep impression upon many a student. Her studies at her home in Portland, Maine, on native orchids were interrupted by her death.

Dr. Nichols was for many years an active member of the Ohio Academy (became a Fellow in 1922), of the A. A. A. S., the American Society of Naturalists, and of the Jossylin Botanical Society of Maine.

JOHN H. CHASE was born in Atlanta, Ga., October 25, 1873, where his father was a professor in Atlanta University. He received his B.S. degree from Amherst College and M.S. from Columbia University, after which he became a social worker in New York City. He continued his welfare work in Cleveland and Cambridge, Mass., and about thirty years ago came to Youngstown. He became executive secretary of the Youngstown Playground Association and was through all his work there a pioneer full of good working ideas. He lived to see accepted as necessities many of his "revolutionary ideas."

Better housing, supervised play, better understanding between the Negro and White races, water conservation, tree planting, and various phases of conservation were enthusiastically supported by him. He worked through the schools, Y. M. C. A., Y. W. C. A., Scouts, and Fresh Air camps. He served as president of the Ohio Nature Clubs, and of the Youngstown Nature Study Club and as trustee of the Natural Resources Council.

His zeal and inspiration rose highest when he could interest boys and girls in plants, animals, stars, rocks, minerals, experiments, or play. He was the foremost local authority in Geology and published "Introducing Our Ancestors," "Geology Trails," and many newspaper articles. He had completed a paper on "Earth Rhythms" for the Academy meeting last spring. A few days before the meeting he wrote the chairman of his section, "Because my health is not tops I may not be able to make the trip," and enclosed a copy of his speech. He died in sleep before the day of the meeting.

Youngstown bestowed many honors upon Mr. Chase, not the least being John H. Chase Day in 1935 when 3,000-4,000 persons turned out to do him honor. In his later years he was proud to be chosen professor of Geology in Youngstown College, where he stood strong for field work and actual contact with the things and phenomena of his science.

WILLIAM ALEXANDER MATHENY was born in 1882 here in Ohio. After the regular public school program he entered Ohio University at Athens and received the B.Ph. degree in 1908.

The next year he added the A.M. degree from Clark University and in 1911 his Ph.D. from the same institution. He served as assistant in Botany these three years at Clark. He was invited to teach Botany in his Alma Mater at once and became professor of Civic Biology and Botany at Athens, Ohio, University, in 1912, which position he held until his death of pneumonia January 15, 1943.

He joined the Academy in 1933 and was a member of A. A. A. S. His investigations were in several civic and biologic fields; drink-cup problems, house fly, seed dispersals, and physiologic effects of alcohol.

STANLEY B. MATHEWSON was born in Georgia in 1884. At the age of twenty he was given his B.S. by the Georgia School of Technology, Atlanta. Much of his life work has been in various aspects of personnel and in administrative positions in chemical and industrial institutions. He has served as a District Manager of Bell Telephone and Telegraph Co., as Regional Director of the National Labor Relations Board, as a member of the National Research Council and the Vocational Guidance Conference of Economic Security. He was a Major in A. G. Reserves, 1918-39, a member of the American Legion, A. A. A. S., National Audubon Society, and the Florida Audubon Society. He became a member of the Ohio Academy of Science in 1931, Section on Psychology. He was a member of the Episcopalian Church, the Kiwanis and several other clubs. He published several books and papers on Personnel, Labor, Management, and Unemployment Insurance.

Mr. Mathewson had recently retired to Melbourne, Fla. His work brought him in close touch with many men among whom he always moved with ease—welcome in any group.

ONDESS LAMAR INMAN was born in Bloomfield, Ind., November 11, 1890, was given an A.B. by Indiana University, 1915, B.S. by University of Idaho, 1918, and Ph.D. by Harvard 1921. He held a teaching fellowship and instructorship in Botany at Idaho, 1915-18, and Austin Teaching fellowship at Harvard, 1919-20. Dr. Inman became professor of Biology at Antioch College in 1921, shortly changed to Physiology, and became Dean in 1929, which positions he filled until 1930 when he became Director of the C. F. Kettering Foundation. His main work here was experimental research on chlorophyll. He was a member of A. A. A. S. and Botanical Society of America and joined the Academy in 1923, serving as vice-president in 1935.

Some of his special interests were Respiration injury and recovery processes; Symphalangism; pathogenic bioluminescent bacteria; metabolic studies on *Chlorella clathrata*; chlorophyll and photosynthesis. He prepared a key to the Genus *Calamagrostis*.

While much of his work was done as a member of Antioch College faculty he always wanted time for research and welcomed the call to devote all his time to study and experiment.

ARTHUR LEWIS PIERSTORFF was born November 12, 1895, and died July 28, 1942. Dr. Pierstorff was graduated from the Ohio State University in 1919 with a degree of Bachelor of Arts, and received the degree of Doctor of Philosophy from Cornell University in 1929. He was a second lieutenant, field artillery, U. S. Army, in 1918.

Dr. Pierstorff was assistant county agent at Rochester and Fredonia, New York, 1921-22; research fellow at Cornell University, 1922-23; plant disease director of the New York State spray service at Cornell University, 1924-26; extension horticulturist at Rutgers University, New Jersey State College of Agriculture, 1926-27; extension plant pathologist and associate professor of botany at the Ohio State University, 1928-38, and associate professor of botany in the same institution from 1938 to the time of his death.

Dr. Pierstorff was a recognized authority in the field of plant pathology and pathology. He organized a centralized scab spray service for the state of Ohio, which has been an outstanding service to the orchardists of the state. The effects of his very capable and efficient service in extension work will long continue to be evident in all parts of the state.

Dr. Pierstorff's affable, sincere, and genuine manner, and his warm personality won him many friends among his colleagues and among the agriculturalists of the state.

Our losses always sadden us yet we find satisfaction in contemplating these lives of accomplishment.

Respectfully submitted,

GEO. D. HUBBARD.