

# THE OHIO JOURNAL OF SCIENCE

VOL. XLIV

SEPTEMBER, 1944

No. 5

## ANNUAL REPORT OF THE OHIO ACADEMY OF SCIENCE 1944

### THE OHIO ACADEMY OF SCIENCE

Organized 1891

Incorporated 1892

Affiliated with the American Association for the Advancement of Science

### OFFICERS AND COMMITTEES FOR 1944-1945

#### *President*

J. ERNEST CARMAN

#### *Vice-Presidents*

- |  |  |
|--|--|
| A. <i>Zoology</i> : MARION BOESEL              | G. <i>Geography</i> : JAMES R. BECK        |
| B. <i>Plant Science</i> : W. B. STEIDTMANN     | H. <i>Chemistry</i> : ROY G. BOSSERT       |
| C. <i>Geology</i> : GEORGE W. WHITE            | I. <i>Mathematics</i> : E. I. YOWELL       |
| D. <i>Medical Science</i> : L. F. EDWARDS      | J. <i>Junior Academy</i> : PHILIP DYE      |
| E. <i>Psychology</i> : ARTHUR G. BILLS         | K. <i>Anthropology</i> : RICHARD G. MORGAN |
| F. <i>Physics and Astronomy</i> : C. W. JARVIS |  |

#### *Secretary*

A. W. LINDSEY

#### *Treasurer*

CLARENCE E. TAFT

#### *Historian*

WILLIAM H. ALEXANDER

#### *Executive Committee*

*Ex-Officio*: J. E. CARMAN, A. W. LINDSEY AND C. E. TAFT

*Elective*: G. W. BLAYDES AND GEORGE W. WHITE

#### *Trustees of the Research Fund*

F. C. BLAKE, term expires.....	1945
M. E. STICKNEY, term expires.....	1946
HERBERT OSBORN, <i>Chairman</i> , term expires.....	1947

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

Librarian in charge of Academy Exchanges and Publications

WILLIAM LLOYD EVANS, term expires.....	1945
A. C. ANDERSON, term expires.....	1946

*Committee on Conservation*

E. LUCY BRAUN, term expires.....	1945
E. S. THOMAS, term expires.....	1945
WILBER STOUT, term expires.....	1945
ROSCOE E. FRANKS, term expires.....	1946
T. H. LANGLOIS, <i>Chairman</i> , term expires.....	1946
E. L. WICKLIFF, term expires.....	1946
G. W. CONREY, term expires.....	1947
L. C. DOW, term expires.....	1947
E. W. E. SCHEAR, term expires.....	1947

*Committee on Nominations for 1944-1945*THE VICE-PRESIDENTS OF 1943-1944—E. W. E. SCHEAR, *Chairman**Membership Committee for 1944-1945*

A. <i>Zoology</i> : WILLIAM C. BEAVER	G. <i>Geography</i> : F. J. WRIGHT
B. <i>Plant Science</i> : C. J. WILLARD, <i>Chairman</i>	H. <i>Chemistry</i> : PAUL ROTHMUND
C. <i>Geology</i> : K. C. COTTINGHAM	I. <i>Mathematics</i> : *
D. <i>Medical Science</i> : NORMAND L. HOERR	J. <i>Junior Academy</i> : D. C. FAST
E. <i>Psychology</i> : HERBERT A. TOOPS	K. <i>Anthropology</i> : F. G. DETWEILER
F. <i>Physics and Astronomy</i> : J. L. GLATHART	

*Committee on Necrology*

GEORGE D. HUBBARD, term expires.....	1945
F. H. KRECKER, <i>Chairman</i> , term expires.....	1946
CHARLES G. SHATZER, term expires.....	1947

*Committee on Resolutions*

C. E. O'NEAL, term expires.....	1945
P. M. REA, term expires.....	1946
EUGENE VAN CLEEF, term expires.....	1947

*Academy Representatives*

1. On the Joint Administrative Board of the Ohio Journal of Science:	
WILLIAM LLOYD EVANS, term expires.....	1945
A. C. ANDERSON, term expires.....	1946
2. On the Council of the A. A. A. S.: A. W. LINDSEY.	
3. On the Save-Outdoor-Ohio Council: ROSCOE W. FRANKS.	

*The Council for 1944-1945*

ANDERSON, A. C.	EDWARDS, L. F.	MORGAN, RICHARD G.
BEAVER, WILLIAM C.	EVANS, WILLIAM LLOYD	OSBORN, HERBERT
BECK, JAMES R.	FAST, D. C.	ROTHMUND, PAUL
BILLS, ARTHUR G.	GLATHART, JUSTIN L.	SHETRONE, H. C.
BLAYDES, GLENN W.	HOERR, NORMAND L.	STEIDTMANN, W. B.
BOESEL, MARION	JARVIS, C. W.	TAFT, C. E.
BOSSERT, ROY G.	KRECKER, F. H.	TOOPS, HERBERT A.
CARMAN, J. ERNEST	LANGLOIS, T. H.	WHITE, GEORGE W.
COTTINGHAM, K. C.	LINDSEY, A. W.	WILLARD, C. J.
DEWEILER, F. J.	MILLER, MRS. ETHEL M.	WRIGHT, F. J.
DYE, PHILIP	MILLER, JOHN A.	YOWELL, E. I.

\*The Mathematics Section has not elected a membership committeeman for the year.

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

The possibility of holding a meeting this year caused much discussion in the Executive Committee. Thanks to the willingness of members from the Ohio State University to assume responsibility for a second meeting in succession on their campus, plans were made for the usual gathering on May 4, 5 and 6, 1944.

The first meeting was that of the Executive Council at 8:00 P. M. on May 4, in the trustees' room of the Ohio State Museum. This meeting seemed unusually well attended and enthusiastic. No other evening programs had been planned.

Friday was devoted as usual to section programs. The sections on Physics and Astronomy and Mathematics joined forces, since other recent meetings in these fields had curtailed their programs. In spite of this abridgment a total of 94 papers appears in the annual program, in addition to a forum and some discussion periods. Since last year's program included 95 titles, we seem to have found our wartime level at this point. The program of the Junior Academy took place on Saturday, May 6.

The Ohio State Museum displayed an extremely interesting exhibit of enlargements from Dr. E. S. Thomas' nature photographs. For their technical excellence and artistic qualities as well as for their value in the field of nature study they were worthy of careful attention.

The annual banquet and business meeting were held again in the Faculty Club with Dr. L. H. Snyder as toastmaster. Following a greeting from President Howard L. Bevis of the Ohio State University and the response for the Academy by Dr. H. H. M. Bowman of Toledo University, President Shetrone read, as his retiring address, a paper on prehistoric irrigation in Arizona which introduced the group to an amazing chapter of human life in our continent with vivid suggestion of the fascination of archaeological research.

In the annual business meeting the report from the Council included the names of about fifty new members—a fine tribute to the work of section officers during the year—and the names of the following twenty-eight newly elected fellows:

ALLISON, CLYDE C.	HOLLENBECK, ZEPH J. R.	REED, JOHN F.
BARTLEY, FLOYD	HUMPHREY, SYLVESTER S.	ROGICK, MARY D.
BECK, JAMES R.	MILLER, MRS. ETHEL M.	SHANKS, ROYAL E.
CUNNINGHAM, JOHN F.	MYERS, R. MAURICE	STUMM, ERWIN C.
DELOR, CAMILLE J.	NORRIS, FREDERICK H.	STURGEON, MYRON T.
DICKERMAN, E. EUGENE	PONTIUS, LESLIE L.	SWANSON, CARROLL A.
DOAN, KENNETH H.	POPHAM, RICHARD A.	TAYLOR, MRS. BAYARD
EDELMANN, ABRAHAM	PUPPEL, ITALO D.	TILFORD, PAUL E.
EMO, LORENZO	RABKIN, SAMUEL	WEISHAUP, CLARA G.
GLATHART, JUSTIN L.		

Dr. F. G. Detweiler read the report of the Resolutions Committee, expressing the Academy's appreciation to our hosts for again assuming the responsibility for a wartime meeting with such thoroughly gratifying results.

Respectfully submitted,

A. W. LINDSEY, *Secretary*.

## REPORT OF THE TREASURER

COLUMBUS, OHIO, May 4, 1944.

*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, 1943. The books have been audited and the opinion of the auditor is herewith attached.

Respectfully submitted,

CLARENCE E. TAFT, *Treasurer.*

## OHIO ACADEMY OF SCIENCE BALANCE SHEET AS AT DECEMBER 31, 1943

## ASSETS

## CURRENT EXPENSE FUND:

Cash on Hand.....	\$ 15.00
Cash in Bank.....	518.13
Total Cash.....	\$ 533.13
Interest Receivable.....	19.50
Bonds Owned:	
Federal Farm Loan 1945-55 (cost).....	\$1,300.00
War Savings Bond Series F (cost).....	111.00
Total Bonds Owned.....	1,411.00
Total Assets—Current Expense Fund.....	\$1,963.63

## RESEARCH FUND:

Cash in Bank.....	\$ 234.78
Banc-Ohio Securities Company Stock (cost).....	437.50
Bonds—Fort Hayes Hotel, Columbus, Ohio (cost).....	1,300.00
Total Assets—Research Fund.....	1,972.28
TOTAL ASSETS.....	\$3,935.91

## LIABILITIES AND NET WORTH

## CURRENT EXPENSE FUND:

Liabilities:	
Accounts Payable.....	\$ 205.50
Deferred Credits:	
1944 Dues collected in 1943.....	35.00
Total Liabilities and Deferred Credits.....	\$ 240.50

## NET WORTH:

Ohio Academy of Science:	
Current Expense Fund Surplus.....	\$1,723.13
Research Fund Surplus.....	1,972.28
Total Net Worth.....	3,695.41
TOTAL LIABILITIES AND NET WORTH.....	\$3,935.91

## OHIO ACADEMY OF SCIENCE STATEMENT OF INCOME AND EXPENSE

For the Year Ended December 31, 1943

## INCOME:

Dues collected in 1943.....	\$1,372.50
Grants for Research.....	172.00
Sale of Publications.....	10.66
Interest on Bonds.....	39.00
Total Income.....	<u>\$1,594.16</u>

## OPERATING EXPENSES:

Subscriptions, Ohio Journal of Science.....	\$858.75
Printing:	
Proceedings Ohio Journal of Science.....	\$103.68
Other Printing.....	88.03
Total Printing.....	<u>191.71</u>
Research Grants.....	172.00
Postage and Telegraph.....	35.32
Office Supplies and Expense.....	28.58
Expenses—Officers and Committees.....	25.88
Secretary's Honorarium.....	100.00
Auditing Expenses.....	15.00
Bond of Treasurer.....	5.00
Safety Deposit Box Rent.....	3.60
Bank Charges.....	13.36
Total Operating Expenses.....	<u>1,449.20</u>
EXCESS OF INCOME OVER EXPENSES.....	<u>\$ 144.96</u>

## AUDITOR'S CERTIFICATE

COLUMBUS, OHIO, July 1, 1944.

*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, 1943.

I did not audit the Research Fund.

I hereby certify that in my opinion the books and records of the society are being kept in accordance with accepted accounting principles and the accompanying balance sheet of the Current Expense Fund as at December 31, 1943, and related statement of Income and Expense fairly present the financial condition of the Ohio Academy of Science (Current Expense Fund) and the results of operation for the year ended 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 reported balance in the checking account on December 31, 1943, of \$284.78. The additions credited during the year 1943 were \$46.50 and a grant of \$50.00 with service charges at bank of \$1.14 gives a balance of \$280.14 for December 31, 1943.

## SUMMARY OF RECEIPTS AND DISBURSEMENTS

RECEIPTS	
Balance in Bank as of December 31, 1942.....	\$ 284.78
Receipts.....	46.50
Total.....	\$ 331.28
DISBURSEMENTS	
By grant to Dr. Meyer.....	\$50.00
Service charges at Bank.....	1.14
	51.14
Balance in checking account December 31, 1943.....	\$ 280.14
ASSETS	
Bonds (at cost).....	\$1,300.00
BancOhio stock (at cost).....	437.50
Cash on deposit, Ohio National Bank.....	280.14
Total.....	\$2,017.64

The allowance from the A. A. A. S. for 1944 is \$165.00 and this has been granted, \$100.00 to Dr. Meyer for continuation of a study of mineral nutrition of Russian dandelion, and \$65.00 to Dr. Venard for further work on Ohio mosquito fauna.

While grants from our Research Fund must be of small amounts, they can give aid and encouragement to projects worthy of assistance and it is desired that they have as wide a distribution as possible for locality and field of investigation. They should not only give aid to worthy projects but stimulate research activity in many places and for many members of the Academy.

Respectfully submitted,

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

## REPORT OF THE EXECUTIVE COMMITTEE AND COUNCIL

The activities of our governing bodies were less extensive than usual, largely due to the serious illness of President Shetrone. The Executive Committee did little but plan for the annual meeting.

At the meeting of the Council February 12, on the campus of the Ohio State University, Dr. F. S. Howlett presided. The question of holding an annual meeting, reported favorably by the Executive Committee, resulted in unanimous approval of the meeting. The possible dates were subjected to a long discussion, due to the unusual conditions imposed on educational institutions by the war. It was finally agreed that the meeting should take place at the Ohio State University on May 4, 5 and 6, 1944. It was evident in the discussion that there is a division of opinion on the time for the annual banquet and business meeting and on the advantages of Saturday or preceding days for programs. Evidently a more general expression of opinion is to be desired on these points. Aside from acting on membership applications the Council considered no other business at this time.

The Annual Meeting of the Council took place in the Trustees Room of the Ohio State Museum at 8:00 P. M., May 4. The reports published herewith were presented at this meeting as required by the Constitution. They show that the affairs of the organization are in a prosperous state, only the circulation of publications apparently suffering rather seriously from the war.

At this meeting Dr. Glenn W. Blaydes of the Department of Botany and Dr. George W. White of the Department of Geology, Ohio State University, were elected to the Executive Committee for the coming year.

Steps were taken to assure the constitutional maintenance of the Committees on Necrology and Resolutions.

Nominations to fellowship resulted in the election of twenty-eight fellows, whose names are listed in the preceding report on the Annual Meeting.

The Council authorized the Treasurer to spend up to \$25.00 per year for clerical assistance.

A motion was passed recommending that the Junior Academy consider association with the Science Clubs of America and report to the Council at its next meeting.

The meeting adjourned after a considerable period of semi-formal discussion of various aspects of the work of the Academy which demanded no specific action.

Respectfully submitted,

A. W. LINDSEY, *Secretary.*

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

COLUMBUS, OHIO, April 28, 1944.

#### *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 28, 1944. The meeting was called to order by the Chairman, Dr. Snyder, at 11 A. M. Present were Drs. Snyder and White, representing the Ohio State University; Dr. Evans, representing the Academy, and Drs. Blaydes and Miller, representing the Journal, Dr. Spencer being unable to attend.

The minutes of the preceding meeting were read and approved. A motion presented by Dr. White and seconded by Dr. Evans that Drs. Blaydes and Miller be retained as Editor and Business Manager for the year 1944-45 approved.

The Business Manager's report was given by Dr. Miller. He called the attention of the board to the fact that the \$251.02 surplus over 1942 should not be interpreted as indicating an accumulating asset. The cost of printing during the past year has increased by \$234.66. It was possible to meet expenses during the past year due to the payment of \$497.75 by the Academy for delinquent memberships. The Journal has effected to the limit economies through change in format, size of type, and reduction in number of pages. Further reductions are impractical and would effect no material savings.

The Business Manager wishes to place on record before the Academy the fact that with the increase in cost of production of the Journal additional problems in financing must be faced in the near future.

Drs. Snyder and White were appointed as auditors. A motion by Dr. Evans and seconded by Dr. White that the Business Manager's report be accepted. The motion was carried.

The financial statement follows:

#### THE OHIO JOURNAL OF SCIENCE—FISCAL YEAR 1943

##### RECEIPTS

Balance for 1942.....	\$ 215.29
University allowance.....	750.00
Ohio Academy of Science—pro rata of dues.....	715.50
Ohio Academy of Science—Proceedings.....	103.68
Ohio Academy of Science—delinquent membership payment.....	143.25
Ohio Academy of Science—Balance from 1942.....	250.00
Subscriptions.....	111.00
Sale of back numbers.....	77.36
Author's payment for plates.....	43.46
Payments by authors and institutions of publication costs.....	148.75
	<hr/>
	\$2,558.29
Checks outstanding—O. S. U. Mailing Department.....	5.01
	<hr/>
	\$2,563.30

## EXPENDITURES

Spahr and Glenn, Printing Vol. 43, and envelopes and stationery.....	\$1,777.18
Bucher Engraving Company.....	261.50
Postmaster.....	30.00
O. S. U. Mailing Department.....	5.01
Bank charges.....	2.32
Student Auditing Fund.....	1.00
Clerical assistance.....	20.00
	<hr/>
	\$2,096.99
Balance on hand, February 14, 1944 (Huntington National Bank).....	466.31
	<hr/>
	\$2,563.30

The Editor's report was given by Dr. Blaydes. The Editor reports that 44 papers, 28 book reviews and the Academy Proceedings were presented in 277 pages in Volume 43.

The problem of obtaining manuscripts under war conditions was discussed at some length. The Editor is continuing in his effort to obtain special invitation papers.

The Editor wishes to call attention to the board and through the board to the Academy the many difficulties which war conditions have precipitated. He asks that the Academy try to understand that delays in publication, reduced weight and quality of paper are but a few of the editor's war time problems. A motion by Dr. Evans and seconded by Dr. White that the Editor's report be accepted. The motion was carried.

A motion presented by Dr. White, seconded by Dr. Evans and passed by the board is as follows: The board desires to extend to the Editor and Business Manager of the Journal its sincere appreciation and approval in perpetuating a commendable publication under the most trying circumstances.

The meeting adjourned at 12:30.

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

## REPORT OF THE LIBRARY COMMITTEE

COLUMBUS, OHIO, May 4, 1944.

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

The sales of publications plus sales tax amounted to \$13.61. This sum, less 49 cents expended for fifty tax stamps, has been given to the Treasurer. Twenty-three items were sold in seventeen sales. Six were copies of Dr. W. G. Stover's *Agaricaceae of Ohio* and five of those were sold as a result of the favorable comments made about it by Mr. E. S. Thomas in a Sunday issue of the *Columbus Dispatch* last August.

This is the fourth year that the Ohio Journal of Science has not been sent to foreign countries in the eastern hemisphere and the third year that it has not been mailed to the other Americas. The stock became too large for the storage facilities of the mailing room and as the main building of the Ohio State University library had no place for it, it was all brought over to the Botany and Zoology library where it was assembled into volumes, wrapped, marked, and stored on top of the book stacks. The surplus for each issue is brought and put away in the same manner. The volumes will be posted at the end of the war to the exchanges whose libraries are still in existence.

Two years ago the members of the library committee considered ways to circulate more of the stock of the Annual Reports and special papers of the Academy. Two plans were proposed and the results were to be reported the following year. One plan was to send the price list again to book dealers. This was done and the report was made last year that it has produced no results. The other plan was to make use of the forthcoming new edition of the Union List of Serials 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 Union List was postponed for a year, the report on this plan had to be held over until this year.



Ninety-five libraries in this country and Canada reported their holdings of the Ohio Academy of Science Proceedings in this new edition. Of this number, twenty-five libraries in the United States and two in Canada reported complete sets. Notices were sent to twenty libraries which had more than just a few stray numbers, offering to supply what they lacked if the numbers were still available. So far replies have been received from twelve, with the result that five of them had complete sets without realizing it. This was due to the fact that the name "Proceedings" and the volume numbering did not begin until the twelfth report which Professor J. H. Schaffner marked as volume four, part 1. He assembled the first eleven reports and the first seven special papers into three volumes, and although he was very careful to give a full explanation in the twelfth report, yet quite a number of libraries assume that they lack the first three volumes of the Proceedings. Two libraries reported having complete sets except for one paper, the unavailable *Trees of Ohio*, by Professor Schaffner. Their sets were completed for three libraries, and for another except for this one paper, so that now the record is that thirty-five libraries in this country and Canada have complete sets and five more lack only the one paper. But not much stock was used as filling in the sets in the four libraries required only ten special papers and forty-three annual reports. Correspondence will be maintained with more of the libraries that are cited in the Union List of Serials.

As a result of the notice published in the November issue of the Ohio Journal of Science that a copy of Professor E. L. Moseley's book on Milk Sickness caused by White Snakeroot would be sent without cost, twelve copies were posted to members of the Academy living in various parts of Ohio and in two other states. Three more members will be supplied later with copies.

One new exchange was secured, another was resumed as publication was begun after a lapse of thirty years, and one of long standing was transferred from the exchange list of the Academy to the subscription list of the Ohio State University library as the organization had found it necessary to curtail the number of its exchanges.

Respectfully submitted,

WARREN P. SPENCER,  
WILLIAM LLOYD EVANS,  
ETHEL MELSHEIMER MILLER, *Chairman.*

---

## REPORT OF THE COMMITTEE ON NECROLOGY

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

Your Committee deeply regrets to report the death of four members of the Academy which have been brought to its attention. The names are those of Dr. Arthur T. Evans, Prof. Ralph A. Schaller, Dr. Adam P. Seyfried, and Dean Alfred Vivian.

ARTHUR T. EVANS—The death of Dr. Arthur T. Evans, Head of the Department of Botany at Miami University, occurred on October 5, 1943, in Oxford, Ohio, after an illness of several months. He was born in Wellington, Illinois, in 1888. He came to Miami University in 1928 from South Dakota State College, where he had been head of the Department of Botany and Plant Pathology since 1920. During the year 1918-1919 he conducted investigations on cereal crop diseases in the Great Plains area for the United States Department of Agriculture. His academic training was received at the universities of Illinois, Colorado, and Chicago. Early experience as a teacher was gained in the Wakefield, Michigan, Township High School, of which he was principal. With the coming of World War II he became actively interested in promoting the development of Victory gardens in the region about Oxford.

The scientific organizations of which Dr. Evans was a member were the American Botanical Society, American Association for the Advancement of Science, Sigma Xi, and Phi Sigma. He joined the Ohio Academy shortly after coming to Miami University and was made a Fellow in 1931

RALPH A. SCHALLER—An active and useful life came to an all too early close in the death of Professor Ralph A. Schaller, of Bowling Green State University, at Bowling Green, Ohio, on February 3, 1944, a few weeks short of his forty-third birthday. In 1940 he had become instructor in biology at Bowling Green and in 1943 he was advanced to the rank of Assistant Professor. His scientific interests were primarily in the field of botany. His early professional life had been largely devoted to high school instruction. In 1931 he received the degree of Master of Arts from the Ohio State University and subsequently continued work toward the doctorate. His high school experience quite naturally developed an interest on his part in the junior division of the Ohio Academy of Science and for a time he was vice-president of the Junior Academy. An active interest in the problems of conservation led to his election to the presidency of the Wood County Natural Resources Council. In addition to being a member of the Academy he belonged to the American Association for the Advancement of Science.

The wide range of Professor Schaller's interests is shown by the fact that he had served two terms on the Bowling Green city council, was leader in his church and had been twice president of the Bowling Green State University Alumni Association.

ADAM P. SEYFRIED—Dr. Adam P. Seyfried was Associate Professor of Biology at the University of Dayton. His sudden death in Dayton after a brief illness on August 29, 1941, at the age of 44, brought to an untimely end a career as teacher in the educational institutions of the Society of Mary which had been most successful and gave full promise of even greater usefulness. He was beloved by all who knew him, colleagues, students, and friends alike, for his geniality, kindness and sincerity of character. After graduation from the University of Dayton he taught in California and in Detroit. He then did graduate work at the University of Fribourg, Switzerland, from 1924 to 1928, from which institution he received the degrees of Master of Arts and Doctor of Philosophy. His research was on the anatomy and histology of the myrmicophilous histerid *Chrysaerius iheringi*. Following a six-year term as principal of St. James High School in California he joined the faculty of the University of Dayton in 1925.

Besides membership in the Ohio Academy of Science he held membership in the National Association of Biology Teachers and in the American Association for the Advancement of Science.

ALFRED VIVIAN—In the death of Dean Alfred Vivian, the distinguished Dean Emeritus of the College of Agriculture of the Ohio State University, the University, the Ohio Academy of Science, the state and the nation have lost an outstanding leader in the development of scientific agriculture. He died in Columbus, Ohio, at the age of 76 on October 23, 1943, from a heart ailment after a three-day illness. Those who knew him ever remember his genial nature, those who worked with him will miss his kindly and sound counsel, and those who enjoyed his intimate acquaintance will cherish memories of warm and loyal friendship. Dean Vivian's early scientific interest was in agricultural chemistry in which field he obtained his doctorate at the University of Wisconsin and in which he began his career at the Ohio State University in 1902 as an Assistant Professor. His subsequent work in this phase of chemistry was outstanding and his development of the Department noteworthy. His broad interest in agriculture, his grasp of rural problems, and his keen and enthusiastic appreciation of the possibilities in scientifically conducted agriculture led to his selection as Dean of the College of Agriculture in 1915. Under his direction this division of the University reached a position of leadership in the agricultural world. He was a member of numerous scientific organizations and was elected Fellow of the Academy in 1920.

When he gave up his active professional life, Dean Vivian continued his interest in the life of the rural dweller, and of the city dweller as well, by sharing with others his unusually large collection of musical records through the medium of broadcasting station WOSU. Up to the time of his death he planned, supervised, and frequently announced a daily program entitled "World Famous Music," made up of records taken from his library.

Respectfully submitted,

FREDERICK H. KRECKER.