
REPORT OF THE FIFTY-SIXTH ANNUAL MEETING OF THE OHIO ACADEMY OF SCIENCE

One of the most successful meetings in recent years was held on the campus of Marietta College on May 1, 2, and 3. This was our first visit to Marietta College and we were certainly well received. The Local Committee had provided for every need. Attendance was above average, and programs were presented by all Sections except J.

The meeting opened with the Council meeting on May 1 and sectional meetings were held on May 2 and 3. The annual banquet on Friday evening at 6:30 was attended by more than 200 members and friends. Dr. P. J. Seyler, of the Local Committee, served as an able toastmaster. Greetings were extended by President W. A. Shimer of Marietta College, and response was given for the Academy by Dr. N. W. Hoerr.

The presidential address by Dr. H. H. M. Bowman was on the subject of Antibiosis, in which a review of the history, the preparation of, and the current uses of Antibiotics were presented.

Dr. F. H. Kreckler presented plans of a committee appointed last spring to reorganize and reactivate the Junior Academy.

The annual report of the Secretary was presented and this carried an announcement of the election of new members and of the following persons as follows:

R. C. ALLEN	W. A. EVERHART	C. E. MACQUIGG
S. S. ARNIM	J. O. FULLER	E. F. PADDOCK
R. G. BOSSERT	H. S. GREENE	H. G. B. ROBINSON
SEARS CROWELL, JR.	W. K. HALE	E. J. SCHAEFER
CHAS. A. DAMBACH	P. D. HARWOOD	G. L. STAHLY
W. A. DREYER	D. L. LEEDY	J. R. VAN PELT, JR.

The announcement was made of the election of Dr. F. O. Grover, of Oberlin, as an Honorary Life Member.

Two amendments to the By-Laws of the Constitution were read by the Secretary and approved by the Academy. (These are referred to in the report of the Council.)

The report of the Nominating Committee was presented by Dr. L. F. Edwards in the absence of Dr. George W. White, and the report of the Resolutions Committee was given by Dr. Nicholas Mogendorff.

Respectfully submitted,

RUSH ELLIOTT, *Secretary.*

REPORT OF THE EXECUTIVE COMMITTEE AND COUNCIL

The Executive Committee met on January 17 and again on May 1 and the Council on January 18 and again on May 1.

Two amendments to the By-Laws of the Constitution were received and passed. One is to Chap. III, Sec. 2, a, to read as follows: "A single payment of \$100.00 shall excuse a member from all future annual dues and he becomes a Life Member." The other to Chap. IV, 2b, to read as follows: "The Academy shall pay the Ohio Journal of Science the amount of the bill submitted annually for the printing of the annual report and of the presidential address." These amendments were then presented at the annual meeting. (See Report of Annual Meeting.)

The following items relative to finances are of interest: (1) The Treasurer was authorized to invest \$200.00 from the Research Fund in a G-bond, the income to be used for research; (2) The Treasurer was instructed to invest \$500.00 of current assets in G-bonds.

Reports from all committees were received and are published as a part of the Annual Proceedings.

The report of the Membership Committee is of particular interest. On account of the unusual activity of this committee, 183 new members were added since the last annual meeting. This is probably an all-time high. The applications were duly accepted. Nominations for Fellowship were presented and approved. (See Report of Annual Meeting.)

The Executive Committee presented the name of F. O. Grover for election to Honorary Life Membership. Election was unanimous.

President H. H. M. Bowman presented an invitation to the Academy to hold its 1948 annual meeting at the University of Toledo. The invitation was enthusiastically received and accepted.

Respectfully submitted,

RUSH ELLIOTT, *Secretary.*

REPORT OF THE TREASURER

COLUMBUS, OHIO, July 15, 1947.

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, 1946. The books have been audited and the opinion of the auditor is herewith attached.

Respectfully submitted,

WILBUR M. TIDD, *Treasurer.*

OHIO ACADEMY OF SCIENCE BALANCE SHEET

As at December 31, 1946

ASSETS

CURRENT EXPENSE FUND:

Cash in Bank.....\$1,096.14

Bonds owned:

U. S. War Savings Bond Series F (cost).....\$ 111.00

U. S. War Savings Bond Series G (cost)..... 1,400.00

Total Bonds Owned..... 1,511.00

Total Assets—Current Expense Fund.....\$2,607.14

RESEARCH FUND:

Cash in Bank.....\$ 410.45

Banc-Ohio Securities Stock..... 437.50

Bonds owned:

Fort Hayes Hotel, Columbus, Ohio (cost).....\$1,300.00

U. S. War Savings Bond Series G (cost)..... 100.00

Total Bonds Owned..... 1,400.00

Total Assets—Research Fund..... 2,247.95

TOTAL ASSETS.....\$4,855.09

LIABILITIES AND NET WORTH

CURRENT EXPENSE FUND:

Liabilities—

Accounts Payable.....\$ 15.00

Deferred Credits—

1947 Dues Collected in 1946..... 32.50

Total Liabilities and Deferred Credits.....\$ 47.50

NET WORTH:

Ohio Academy of Science—

Current Expense Fund.....\$2,559.64

Research Fund..... 2,247.95

Total Net Worth..... 4,807.59

TOTAL LIABILITIES AND NET WORTH.....\$4,855.09

OHIO ACADEMY OF SCIENCE STATEMENT OF INCOME AND EXPENSE
For the Year Ended December 31, 1946
CURRENT EXPENSE FUND

INCOME:

Dues from Membership—	\$1,372.00
Regular.....	75.00
Life Memberships.....	<u> </u>
Total Dues.....	\$1,447.00
Grants for Research.....	69.50
Sale of Publications.....	28.61
Interest on Bonds.....	<u>17.50</u>
Total Income.....	\$1,562.61

OPERATING EXPENSES:

Subscriptions—Ohio Journal of Science.....	\$760.50
Printing Proceedings.....	155.46
Research Grants.....	69.50
Postage and Office Supplies.....	88.07
Clerical Expense.....	5.50
Secretary's Honorarium.....	100.00
Auditing Expense.....	15.00
Bond of the Treasurer.....	5.00
Safety Deposit Box Rent.....	3.60
Bank Charges.....	<u>9.25</u>
Total Operating Expenses.....	1,211.88
EXCESS OF INCOME OVER EXPENSES.....	\$ 350.73

AUDITOR'S CERTIFICATE

COLUMBUS, OHIO, June 15, 1947.

The Ohio Academy of Science, Columbus, Ohio.

GENTLEMEN:

In accordance with your instructions I have examined the accounts and records of the Ohio Academy of Science for the year ended December 31, 1946.

I hereby certify that in my opinion the books and records kept on a "cash basis" are in accordance with accepted accounting principles.

In my opinion the accompanying Balance Sheet and Statement of Income and Expense for the Current Expense Fund fairly presents the financial condition of the Ohio Academy of Science as at December 31, 1946, and the results of operations for the year ended at that date.

Respectfully yours,

D. M. SHONTING,
Certified Public Accountant.

REPORT OF THE TRUSTEES OF THE RESEARCH FUND

In connection with this report we have to recognize the death of one of the members of the Board, Professor M. E. Stickney, who died since the last meeting. Professor Stickney, long a member of the Academy, was very faithful in service to the Board and though in serious condition from ill health was constant in attention to the duties of the Board.

Grants during the year 1946 have been completed to Doctor M. T. Sturgeon and Doctor H. T. Gier, both of these being allotted from the grant from the A. A. A. S.

The financial statement by the Treasurer, Doctor Tidd, shows that at the end of the year and detailed in his report, \$410.45 was credited to the Research Fund of the Academy, and by action of the Executive Committee \$200.00 of this amount was to be invested in Government bonds. This leaves a balance of \$210.45 available for grants during the coming year, as also the allowance from the A. A. A. S., which may be approximately \$150.00.

It may be mentioned that a grant of \$100.00 was allotted to Dr. E. Lucy Braun, this being allotted previous to her designation as a Trustee to fill out the unexpired term of Professor Stickney.

Respectfully submitted,

(Signed, Trustees) E. LUCY BRAUN,
J. ERNEST CARMAN,
HERBERT OSBORN, *Chairman.*

REPORT OF THE LIBRARY COMMITTEE

The sales of publications for 1946 including sales tax amounted to \$23.04. Thirty-seven copies of fifteen Special Papers and one Annual Report were sold in seventeen sales. Disbursements consisted of \$21.00 to the Treasurer of the Academy and 49 cents for 50 sales tax stamps, leaving a balance at the end of the year of \$1.55. This has since been given to the Treasurer, together with two checks totalling \$21.40 on the sales for 1947.

It was reported last year that the addresses of the foreign exchanges were being replaced on the mailing list of the Ohio Journal of Science as fast as mail service for periodicals was resumed with the various countries and that the back volumes of the Journal had been sent to 151 addresses during the summer of 1945 and would be sent to 64 more in 1946. This was done and the exchange situation is now nearly back to normal. Requests have come frequently from the foreign exchanges for various issues of the recent volumes of the Journal to complete their sets. Such requests are always fulfilled.

The need for a cumulative index to all the volumes of the Ohio Journal of Science and the Ohio Naturalist has been apparent for several years. Work on it was begun last summer, was necessarily discontinued last Fall, but it is hoped that it can be completed and published in 1948.

The length of service of the present librarian of the Academy has now become of age, for it began exactly twenty-one years ago this Spring. As that would seem to be long enough for one person to have the position it might be well for the members of the Council to refer to the Constitution and to consider who would be the logical one to be appointed when the time actually arrives that will make such action necessary.

Respectfully submitted,

ETHEL MELSHEIMER MILLER, *Chairman.*

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

The annual meeting of the Joint Administrative Board of the Ohio Journal of Science was held at Columbus, Ohio, April 24, 1947. The meeting was called to order by Chairman Snyder. Present were Drs. Snyder and White, representing the Ohio State University, and Drs. Blaydes and Miller, representing the Ohio Journal of Science. Drs. Evans and Anderson were unable to attend.

The minutes of the preceding meeting were read and approved.

Upon a motion by Dr. White, which was seconded by Dr. Snyder, Drs. Blaydes and Miller were elected Editor and Business Manager, respectively, for the year 1947-48.

Dr. Blaydes was called upon for the editor's report, a copy of which is herewith attached. A review of the papers presented in Volume 46 followed in which Dr. Blaydes called attention to the wide distribution of several prominent manuscripts published in the Journal during the past year. The editor called to the attention of the Board that the Ohio Journal of Science is available for immediate publication. He is desirous that this information be conveyed to the Council and through the Council to the membership of the Academy.

The Board expressed general approval to the suggestion of the editor, that short papers and notes on current topics be accepted for publication. Dr. Snyder moved the acceptance of the editor's report; this motion was seconded by Dr. Miller, and passed by the Board.

The Chairman next called for a report from the Business Manager. Dr. Miller's report was in the form of a financial statement for Volume 46 of the Ohio Journal of Science, a copy of which is herewith attached. In commenting upon the financial statement, Dr. Miller again directed the attention of the Board to the continued increase in publication costs. The financial statement clearly indicates that if the Journal is to be continued (on the basis of present costs) additional revenue must be provided. As an example:

Printing cost has increased *this* year over *last* year from \$2,022.24 to \$2,553.43—an increase of \$531.19. The Academy, during the past year, contributed \$859.50, \$277.19 less than the preceding year. (The average Academy appropriation over the past six years is \$1,004.87.)

Two items in the financial report were especially cited to the Board, namely, through the efforts of Dr. Blaydes, and the cooperation of Sectional Chairmen, the Journal received \$499.54 in publication subsidy. In addition to this amount, \$201.08 was received through credit on reprints of several outstanding papers. Notwithstanding this new source of revenue amounting to \$700.62, the Journal experienced a net operating loss of \$287.43 for Volume 46.

Dr. Miller, at this point, made it clear that similar subsidy was not indicated for the current volume.

At the conclusion of the Business Manager's report it was determined by the Board to request of the Academy additional subsidy, at least equal to that provided by the University. Additional revenue through accepting advertising was discussed but no action taken.

Dr. White moved the acceptance of the report of the Business Manager; this motion was seconded by Dr. Blaydes and passed by the Board.

Drs. Snyder and White were appointed by the Board to audit the accounts of the Journal for the fiscal year just ended.

There being no further business to come before the Board it was adjourned.

Respectfully submitted,

JOHN A. MILLER,
Secretary of the Board.

THE EDITOR'S REPORT TO THE JOINT ADMINISTRATIVE BOARD OF THE
OHIO JOURNAL OF SCIENCE

The Ohio Journal of Science, Volume 46, 1946:

Total number of pages printed in Volume 46.....	344
Number of papers in Volume 46.....	52
Distribution of papers by subject:	
Botany.....	3
Entomology.....	12
Genetics.....	1
Geography.....	1
Geology.....	4
Medicine.....	27
Ohio Academy of Science, Annual Report.....	1
Zoology.....	3
Total.....	52 papers
Book Reviews.....	8

FINANCIAL REPORT OF THE OHIO JOURNAL OF SCIENCE—FISCAL YEAR 1946

RECEIPTS

Balance from 1945.....	\$ 539.08
University Allowance.....	1,000.00
Ohio Academy of Science—pro rata of dues.....	760.50
Ohio Academy of Science—Payment of previous obligation (1943).....	99.00
Subscriptions.....	131.00
Sale of back numbers.....	87.80
Author's Payment of Plates.....	56.18
Four Continent Book Co. (change from domestic to foreign rate).....	1.75
Graduate School, O. S. U. (Harley Brown paper).....	224.54
O. S. U. Medical Symposium Number.....	200.00
E. L. Moseley paper.....	75.00
Credit on reprints (Spahr and Glenn).....	201.08
	<u>\$3,375.93</u>

EXPENDITURES

Spahr and Glenn (printing, Volume 46).....	\$2,553.43
Bucher Engraving Company, (Volume 46).....	351.89
Postmaster (Unpaid balance of 1945).....	34.90
Postmaster (Foreign exchanges).....	62.80
Postmaster (Current volume).....	100.75
Bank charges.....	.51
Clerical assistance.....	20.00
	<u>\$3,124.28</u>
Balance on hand, March 1, 1947 (Huntington National Bank).....	251.65
	<u>\$3,375.93</u>

REPORT OF THE COMMITTEE ON CONSERVATION

The Committee on Conservation presents the following report:

1. There is need for more extensive surveys of the natural resources of Ohio.
2. There is need for better correlation of the several surveys of Ohio's natural resources.
3. There is need for an integrated attack upon the problems presented by those who seek to promote public acceptance of the facts about our natural resources and their wise use which are revealed by research.
4. There is need for attack on the problems inherent in gaining administrative use of the facts revealed by scientific research.

The Committee on Conservation recommends that the Ohio Academy of Science should proffer its services, as an organization, and as individuals who are influential in guiding public thinking in many Ohio Communities, toward promoting the more efficient administration of Ohio's natural resources by helping to meet these needs.

Respectfully submitted,

G. W. CONREY,

C. L. DOW,

ROSCOE FRANKS,

ARTHUR HARPER,

E. W. E. SCHEAR,

C. E. TAFT,

G. W. WHITE,

E. L. WICKLIFF,

T. H. LANGLOIS, *Chairman.*

REPORT OF THE COMMITTEE ON NECROLOGY

The Committee on Necrology reports with deep regret the death of three members of the Academy since the last annual meeting. The following biographical material was furnished by colleagues on the respective university faculties.

MALCOLM ENOS STICKNEY

Malcolm Enos Stickney, professor-emeritus of botany at Denison University, died of coronary thrombosis at his home in Granville, June 15, 1946, after an illness of several months. He had been in failing health during the past few years.

Born April 18, 1874, in Brownville, Me., he attended high school there, later graduating from Nichols Latin School. He took a Bachelor of Arts degree from Bates College in 1898 and the next two years attended Harvard University, earning both Bachelor and Master of Arts degrees there. He did further graduate study at the University of Wisconsin and at the Marine Biological Laboratories, Woods Hole, Mass. Joining the faculty at Denison in 1903, he served one year as instructor, five as assistant professor, and was professor and head of the department from 1909 until his retirement in 1940. For 20 years he taught at the Ohio State Biological Laboratories at Put-In-Bay on Lake Erie. He also served for many years as examiner for the health department of Licking County, making bacteriological diagnoses, and laboratory tests and examinations for local physicians. After his retirement and before his health failed, he spent many hours in the laboratory identifying specimens in the world-wide collection of ferns bequeathed to the college by the late Wallace Cathcart, who had been an alumnus and trustee.

Professor Stickney was a member of several learned and scientific societies, including the American Association for the Advancement of Science, the Botanical Society of America, the Ecological Society of America, the American Microscopical Society, and the Botanists of the Central States. He served the Ohio Academy of Science as vice-president for two years and the Denison Scientific Association as president for two years. At the time of his death he was a Trustee of the Research Fund of the Ohio Academy of Science. He was a member of Kappa Sigma fraternity and of Phi Beta Kappa, national scholastic honorary fraternity.

FRANCIS J. MOLZ

Dr. Francis J. Molz, S.M., associate dean and head of the division of science at the University of Dayton, died unexpectedly September 3, 1946, of a heart attack.

A native of Baltimore, Md., Dr. Molz joined the Society of Mary in Dayton in 1907, and made his first profession of vows March 25, 1908. He received his Bachelor of Science degree from the University of Dayton in 1916 and a licentiate in science and a Doctor of Philosophy degree from the University of Fribourg, Switzerland, in 1923 and 1924. He joined the faculty of the University of Dayton in 1924 and began teaching in the biology department which he later headed. Dr. Molz was faculty adviser of Sigma Delta Pi, pre-medical society and also a member of the university athletic board. Dr. Molz became associate dean and head of the division of science in 1935. During his term and under his leadership the university completed arrangements for affiliation with St. Elizabeth's Hospital School of Nursing, and also the Miami Valley Hospital's medical technology school and laboratory. The department of home economics at the university was also established as a section of the science division during Dr. Molz's administration.

Brother Molz was a member of the American Association for the Advancement of Science, Ohio Academy of Science, and Ohio Health Association.

JOSEPH HARVEY GOURLEY

Joseph Harvey Gourley, professor and head of the department of Horticulture and Forestry at Ohio State University, died on October 27, 1946.

Born July 1, 1883, in Homer City, Pa., he received the degrees of Bachelor of Science and Master of Science from Ohio State University in 1908 and 1915, respectively. The degree of Doctor of Philosophy was conferred upon him by the University of Chicago in 1931. He was long associated with the Ohio Experiment Station, holding the position of Chief of the Department of Horticulture from 1921 until his death. He also held professorships in Horticulture

at West Virginia University and at the University of New Hampshire and from 1912-1920 was vice-director of the New Hampshire Experiment Station. In 1929 he became professor and head of the Department of Horticulture and Forestry at the Ohio State University.

Dr. Gourley was Associate Editor of the American Fruit Growers Magazine, a member and former president of the Society of Horticultural Science, and a fellow of the Ohio Academy of Science. His chief professional interests were in the fields of fertilization in orchards; flower-bud formation; pomology; and orchard management.

Respectfully submitted,

A. C. ANDERSON,
F. G. DETWEILER,
R. V. SINNETT, *Chairman.*

REPORT OF COMMITTEE ON RESOLUTIONS

Be it Resolved, that, since the reduction in the budget of the Department of Interior endangers the program of conservation research, the Ohio Academy of Science convey to the proper authorities through its Secretary the urgency of continuing support of this program as now organized in the State of Ohio.

Be it further Resolved, that the members of the Academy express their gratitude and appreciation to President Shimer and to the faculty of Marietta College for the hospitality and courtesies extended; and

Be it further Resolved, that the members of the Academy express their indebtedness to the local Committee on Arrangements, which under the leadership of Professors H. R. Eggleston and P. J. Seyler has provided such excellent facilities for the meeting, and which has made our stay at Marietta most comfortable and pleasant; and

Be it further Resolved, that the Ohio Academy of Science express to its librarian, Mrs. Ethel Melsheimer Miller, its deep appreciation and gratitude for her devoted service during the past twenty-one years.

Be it further Resolved, that the members of the Academy express their sincere thanks to their President, Dr. H. H. M. Bowman, whose untiring efforts contributed greatly to make this fifty-sixth annual meeting a success.

Respectfully submitted,

N. L. HOERR,
E. W. E. SCHEAR,
N. MOGENDORFF, *Chairman.*