

ANNUAL REPORT OF THE OHIO ACADEMY OF SCIENCE

1948

Organized 1891
Incorporated 1892
Affiliated with the American Association for the Advancement of Science

OFFICERS AND COMMITTEES FOR 1948-1949

President

GEORGE B. BARBOUR

Vice-Presidents

- | | |
|--|--|
| A. <i>Zoology</i> : W. C. STEHR | G. <i>Geography</i> : EDNA A. EISEN |
| B. <i>Plant Science</i> : E. T. BODENBERG | H. <i>Chemistry</i> : W. A. EVERHART |
| C. <i>Geology</i> : M. T. STURGEON | I. <i>Mathematics</i> : R. E. MANCHESTER |
| D. <i>Medical Sciences</i> : W. KELLY HALE | J. <i>Science Education</i> : P. W. HYDELL |
| E. <i>Psychology</i> : S. L. PRESSEY | K. <i>Anthropology</i> : J. N. SPUHLER |
| F. <i>Physics and Astronomy</i> : W. R. PYLE | |

Secretary

RUSH ELLIOTT

Treasurer

W. M. TIDD

Historian

WILLIAM H. ALEXANDER

COMMITTEES

Executive Committee

Ex-Officio: GEORGE B. BARBOUR, RUSH ELLIOTT, W. M. TIDD

Elective: H. H. M. BOWMAN, A. W. LINDSEY

Membership

- | | |
|---|---|
| A. <i>Zoology</i> : W. F. HAHNERT | G. <i>Geography</i> : CURTIS M. WILSON |
| B. <i>Plant Science</i> : J. FISHER STANFIELD | H. <i>Chemistry</i> : R. G. BOSSERT |
| C. <i>Geology</i> : R. J. BERNHAGEN, Chairman | I. <i>Mathematics</i> : |
| D. <i>Medical Sciences</i> : I. D. PUPPEL | J. <i>Science Education</i> : H. C. HULME |
| E. <i>Psychology</i> : A. G. BILLS | K. <i>Anthropology</i> : F. L. UTLEY |
| F. <i>Physics and Astronomy</i> : M. L. POOL | |

Nominating

VICE-PRESIDENTS OF 1947-1948, R. W. DEXTER, Chairman

Program

VICE-PRESIDENTS OF VARIOUS SECTIONS AND SECRETARY

Library

MISS LILLIAN MICHAELIS, Chairman
 Librarian in charge of Academy Exchanges and Publications

A. C. ANDERSON..... Term expires 1949
 R. A. HEFNER..... Term expires 1951

Publications

SECRETARY, Chairman

A. C. ANDERSON..... Term expires 1949
 R. A. HEFNER..... Term expires 1951

Conservation

ARTHUR HARPER, Chairman..... Term expires 1949
 GEORGE W. WHITE..... Term expires 1949
 C. E. TAFT..... Term expires 1949
 R. V. BANGHAM..... Term expires 1950
 R. W. FRANKS..... Term expires 1950
 C. A. DAMBACH..... Term expires 1950
 E. S. THOMAS..... Term expires 1951
 P. B. SEARS..... Term expires 1951
 FRANK J. WRIGHT..... Term expires 1951

Necrology

H. R. EGGLESTON..... Term expires 1949
 J. E. CARMAN, Chairman..... Term expires 1950
 CARL VER STEEG..... Term expires 1951

Resolutions

W. C. KRAATZ, Chairman..... Term expires 1949
 P. B. SEARS..... Term expires 1950
 W. C. BEAVER..... Term expires 1951

Trustees of Research Fund

HERBERT O. OSBORN, Chairman..... Term expires 1949
 E. LUCY BRAUN..... Term expires 1950
 E. N. TRANSEAU..... Term expires 1951

Academy Representatives

1. On the Joint Administrative Board of The Ohio Journal of Science:
 A. C. ANDERSON..... Term expires 1949
 R. A. HEFNER..... Term expires 1951
2. On the Council of the A. A. A. S.: SECRETARY.
3. On the Save-Outdoor-Ohio Council: R. W. FRANKS.

The Council for 1948-1949

ANDERSON, A. C.	HAHNERT, W. F.	POOL, M. P.
BARBOUR, G. B.	HALE, W. KELLEY	PUPPEL, I. D.
BERNHAGEN, R. J.	HARPER, A. R.	PYLE, W. R.
BILLS, A. G.	HEFNER, R. A.	SPUHLER, J. N.
BLAYDES, G. W.	HULME, H. C.	STANFIELD, J. F.
BODENBERG, E. T.	HYDELL, P. W.	STEHR, W. C.
BOSSERT, R. G.	LINDSEY, A. W.	STURGEON, M. T.
BOWMAN, H. H. M.	MANCHESTER, R. E.	TIDD, W. M.
EISEN, EDNA E.	MICHAELIS, LILLIAN	UTLEY, F. L.
ELLIOTT, RUSH	MILLER, JOHN A.	WILSON, C. M.
EVERHART, W. A.	OSBORN, HERBERT O.	

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

The Academy was privileged to participate in the year-long activities in the celebration of the seventy-fifth anniversary of The University of Toledo by holding the annual meeting on the campus on May 6, 7, and 8. Excellent arrangements had been made by the Local Committee, with Dr. A. N. Solberg as chairman, attendance was good and programs were presented by all sections of the Academy.

The meeting opened with the Executive Committee and Council meetings on May 6, and sectional meetings were held on May 7 and 8. The annual banquet was held at the Secor Hotel on Friday evening at 6:30. Dr. A. N. Solberg served as an able toastmaster. A brief and interesting history of the University of Toledo was presented by Dr. Frank Hickerson. Greetings were extended by President W. W. White of the University of Toledo, and response was given for the Academy by Dr. F. S. Howlett. The presidential address was given by Dr. A. W. Lindsey on the subject, "The Fallacy of Communism."

Dr. F. H. Kreckler presented a report on the organization and activities of the new reactivated section formerly known as the Junior Academy and now known as the Science Education section.

The annual report of the secretary was presented and carried an analysis of the membership of the Academy at present and the announcement of the election of the following members as follows:

CLARENCE F. CLARK	WENDELL R. KOCH	W. R. PYLE
FLOYD B. CHAPMAN	HARRY V. KNORR	HALLOCK F. RAUPP
JOHN W. COULTER	HOWARD K. JUSTICE	H. H. ROSEBERRY
CHARLES M. DISERENS	ARTHUR L. LUTZ	JAMES M. SPUHLER
FRANK M. FLETCHER, JR.	O. E. MCCLURE	J. FISHER STANFIELD
EARL L. GREEN	HAROLD E. NEWHARD	WILL S. THOMPSON
FRED H. HOUSEHOLDER	T. D. PHILLIPS	CLARENCE W. WALLACE

The report of the Nominating Committee was presented by Dr. W. C. Beaver, of the Necrology Committee by Dr. J. E. Carman, and of the Resolutions Committee by Dr. W. C. Kraatz.

Respectfully submitted,

RUSH ELLIOTT, *Secretary*.

REPORT OF THE EXECUTIVE COMMITTEE AND COUNCIL

The Executive Committee met on January 16, and again on May 6, and the Council on January 17, and again on May 6.

A petition was received from a group of new members of the Academy for the recognition of a section of the Academy to be known as the Science Education section, to be Section J, and to replace the former Junior Academy Section. This will be made up chiefly of high school science teachers. Petition was approved.

A special committee was appointed (R. L. Edwards, chairman, F. H. Kreckler, G. W. Blydes, W. M. Tidd and James Vaughn) to make a study of the allocation of funds collected as annual membership dues and to report at the next winter meeting of the Council.

The Membership Committee reported 140 new members. This brings the total membership to more than 850, the largest in the history of the Academy. The applicants were duly accepted. Nominations for Fellowship were presented and approved (see report of Annual Meeting).

The appointment of Miss Lillian Michaelis of The Ohio State University as Librarian of the Academy was approved.

A proposal by the secretary for a regular plan for the location of the annual meeting on a geographical basis was adopted. This is in effect that every other year the meeting should be held at an institution in the central part of the state and on alternate years in the four quarters in a rotary plan.

Invitations for the 1949 meeting were received from Miami University and Denison University and for the 1950 meeting from Capital University as a part of the Centennial program. The invitations from Miami, from which an invitation for the 1948 meeting had also been received, and from Capital were accepted and the invitation from Denison will again be extended for a later date. The 1949 meeting will have to be set for an earlier date than the early part of May, to which we have been accustomed in the past several years.

Respectfully submitted,

RUSH ELLIOTT, *Secretary*.

REPORT OF THE TREASURER

COLUMBUS, OHIO, August 10, 1948.

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, 1947. 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, 1947

ASSETS

CURRENT EXPENSE FUND:

Cash in Bank.....	\$ 540.13
Bonds owned:	
U. S. War Savings Bonds Series F (cost).....	\$ 111.00
U. S. War Savings Bonds Series G (cost).....	1,900.00
Total Bonds Owned.....	<u>2,011.00</u>
Total Assets—Current Expense Fund.....	\$2,551.13

RESEARCH FUND:

Cash in Bank.....	\$ 247.31
Banc-Ohio Securities Stock.....	437.50
Bonds owned:	
Fort Hayes Hotel, Columbus, Ohio (cost).....	1,300.00
U. S. War Savings Bonds, Series G (cost).....	300.00
Total Assets—Research Fund.....	<u>2,284.81</u>
Total Assets.....	\$4,835.94

LIABILITIES AND NET WORTH

CURRENT EXPENSE FUND:

Liabilities—	
Accounts payable.....	\$ 15.00
Deferred Credits—	
1948 Dues collected in 1947.....	57.50
Total Liabilities and Deferred Credits.....	<u>\$ 72.50</u>

NET WORTH:

Ohio Academy of Science—	
Current Expense Fund.....	\$2,478.63
Research Fund.....	2,284.81
Total Net Worth.....	<u>4,763.44</u>
Total Liabilities and Net Worth.....	\$4,835.94

OHIO ACADEMY OF SCIENCE STATEMENT OF INCOME AND EXPENSE

For the Year Ended December 31, 1947

INCOME:

Dues from Members.....	\$1,775.00
Grants for Research.....	307.00
Sale of Publications.....	61.26
Interest on Bonds.....	41.25
Total Income.....	<u>\$2,184.51</u>

OPERATING EXPENSES:

Subscriptions—Ohio Journal of Science.....	\$1,026.00
Printing Proceedings, 1947.....	240.70
Printing—Other.....	304.45
Research Grants.....	307.00
Postage and Office Expense.....	172.13
Secretary's Honorarium.....	100.00
Binding Reports.....	13.14
Miscellaneous.....	3.10
Total Operating Expense.....	\$2,166.52

NON-OPERATING EXPENSE:

Ohio Journal of Science—special grant.....	99.00
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Total Expenses..... 2,265.52

Excess of Expense Over Income..... \$ 81.01

AUDITOR'S CERTIFICATE

COLUMBUS, OHIO, July 1, 1948.

To 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, 1947.

A detailed audit was made of all transactions handled by the treasurer. Cash in bank was verified by bank certification. Securities in safety deposit box were verified by personal examination. My examination was made in accordance with generally accepted auditing standards.

In my opinion the accompanying balance sheet and the statement of income and expense (cash basis) fairly presents the financial position at December 31, 1947, and the results of operations on a cash basis for the year ending December 31, 1947. These statements are in conformity with generally accepted accounting principles.

Respectfully yours,

D. M. SHONTING,
Certified Public Accountant.

REPORT OF THE TRUSTEES OF THE RESEARCH FUND

Your trustees beg to report for the year 1947-48 that the grant to Doctor E. Lucy Braun has been completed. Her grant, as stated in a previous report, was prior to her appointment as a member of the Board. Also, a grant for \$31.50 was made to R. D. Wood for an article with illustrations on the Caraceae of Put-in-Bay, published in the *Ohio Journal of Science*.

We have also made a grant to Doctor Margaret Fulford of the University of Cincinnati in the amount of \$153.00, which amount has been received from the A. A. A. S. and is to assist her in her studies of Hepaticae.

The statement by Doctor Tidd as Treasurer will contain details of the assets and funds available for grants from the Research Fund of the Academy.

There is a probable annual grant to come from the A. A. A. S. for the present year which will be about \$150.00. There will also be some available funds as a balance in the Academy Research Fund and it is desirable that applications for assistance be made promptly. This is especially true for the grant from the A. A. A. S. which is available during the year. Applications for assistance should be made to the Research Fund, Ohio Academy of Science, Herbert Osborn, Chairman, B. & Z. Building, Ohio State University, Columbus 10, Ohio.

Respectfully submitted,

E. LUCY BRAUN,
J. ERNEST CARMAN,
HERBERT OSBORN, *Chairman*.

REPORT OF THE LIBRARY COMMITTEE

The library has indeed felt the absence of Mrs. Miller's capable hand, but has carried on after a fashion which we hope will show constant improvement.

Back issues of the Ohio Journal of Science to cover the war years, have been sent through

the Smithsonian Institution to seven foreign countries. Four new exchanges have been added. Lacks have been filled on request.

The report of the sales of publications handled by the library is incorporated in the report of the Academy Treasurer.

Respectfully submitted,

LILLIAN MICHAELIS.

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 10, 1948. Dr. Blaydes, having called the meeting of the board, presided at its organization. Present were Drs. Spieker and Meyer, representing the Ohio State University; Drs. Hefner and Anderson, representing the Ohio Academy of Science, and Drs. Blaydes and Miller, representing the Ohio Journal of Science. Upon a motion by Dr. Meyer and seconded by Dr. Hefner, Dr. Spieker was elected to serve as Chairman of the Board. Dr. Miller continued to serve as secretary.

The minutes of the preceding meeting were read and approved.

The chair called for a report of the Business Manager. Dr. Miller's report was in the form of a financial statement for Volume 47 of the Journal, a copy of which is herewith attached. Dr. Anderson moved the acceptance of the financial report, the motion was seconded by Dr. Hefner and passed by the board.

Dr. Miller, in commenting upon the financial position of the Journal, called the attention of the board to the gain in assets of \$281.87 for Volume 47, over Volume 46. He explained that this was due to a combination of favorable factors, the failure of any one would have caused a deficit in the current operating expense. The Ohio Academy, for example, paid into the Journal for pro-rata dues \$273.00 more during 1947 than in 1946. The number of pages of the Journal was reduced and a number of special papers and author's payment of publication costs were obtained, thus further effecting an economy of publication.

The increase in Academy memberships and the restoration of foreign exchanges and subscriptions has necessitated an increase in the number of copies of the Journal to be printed in the future. This will add to the present cost of publication.

Upon the suggestions of the Business Manager, Dr. Hefner moved and Dr. Meyer seconded a motion to authorize the Business Manager to devise, in cooperation with Dr. Tidd, of the Academy, a symbol to be placed on the stencil of all those receiving the Journal. Motion carried.

The chairman then called for the report of the Editor. Dr. Blaydes then presented a review of papers presented in Volume 47. He called attention to the variety of papers in this volume, 10 science divisions being represented through 41 papers, totaling 265 pages. Eight book reviews were also published. The editor called the attention of the board to the limited number of papers on hand and wished to make known to this body that early publication in the Journal is possible. Dr. Hefner moved the acceptance of the Editor's report, seconded by Dr. Anderson. Passed by the Board.

The Chairman then called for an election of Business Manager, and Editor for Volume 48.

Dr. Hefner moved the appointment of Dr. Miller as Business Manager, seconded by Dr. Meyer. Passed by the Board.

Dr. Meyer moved the appointment of Dr. Blaydes as Editor, seconded by Dr. Hefner. Passed by the Board.

Dr. Hefner moved that the Auditing Committee be composed of Dr. Meyer and Dr. Spieker, seconded by Dr. Anderson. Passed by the Board.

Under new business, it was the expression of the Board that means should be used to stimulate papers from all sections of the Academy. The Secretary was directed to include in the report to the Academy an appeal to the Vice-Presidents of each section to encourage their section affiliates to offer papers in the Journal. The Journal can print only those papers that are submitted, and if section members are disappointed in the offerings in the Journal from their field, it is because they do not offer for publication in the Journal their own researches.

As informal discussion regarding the forthcoming consideration on the part of a committee to study Academy membership without the Journal followed. It was agreed that the Journal cooperate with the Junior Academy and other interested groups in making available space in the Journal for articles of interest to such groups.

There being no further business to come before the Board at this time, it was adjourned.

Respectfully submitted,

JOHN A. MILLER,
Secretary of the Board.

THE OHIO JOURNAL OF SCIENCE

Fiscal Year 1947

RECEIPTS

Balance from 1946.....	\$ 251.65
University allowance.....	1,000.00
Ohio Academy of Science—pro rata of dues.....	1,033.50
Ohio Academy of Science—proceedings.....	240.70
Ohio Academy of Science—delinquent payment.....	68.75
Subscriptions.....	140.00
Sale of back numbers.....	52.09
Author's payment for plates.....	167.70
Payments by authors and institutions of publication costs.....	617.66

\$3,572.05

EXPENDITURES

Spahr and Glenn, Printing—Vol. 47 and envelopes and stationery.....	\$2,565.14
Bucher Engraving Company.....	367.85
Postmaster.....	85.11
Bank Charges.....	1.43
Clerical assistance.....	19.00

\$3,038.53

Balance on hand, February 20, 1948 (Huntington National Bank)..... 533.52

\$3,572.05

REPORT OF THE COMMITTEE ON CONSERVATION

The report of your Conservation committee, which is herewith respectfully submitted, is based upon the universally recognized concept that all activities designed to conserve our natural resources should be founded on and guided by a scientific understanding of those natural resources. Our recommendations also have considered the fact that, since all the affairs of mankind are greatly dependent upon the richness, abundance and availability of natural resources, it becomes the civic duty of every citizen to take an active part in the program of conservation, contributing specially those skills and understandings which form a part of his personal vocation. Upon both these counts, the members of the Ohio Academy of Science have a special opportunity and upon them devolves a special duty to take an active part in the public program of conservation.

In the field of research, whether involving the physical, biological or social sciences, the members of the Ohio Academy of Science possess sound and proven data that would be valuable guidance to conservation technicians, and also to legislators and administrators of those agencies which plan and execute conservation programs. All this is equally true of those members engaged in field work, such as ecological surveys. Your committee recommends that the Academy as a whole and as individual members shall here resolve that such scientific data shall not only be made readily available but that it shall become a part of the public conservation program through vigorous personal participation in that program.

The success of any public program is very largely determined by public opinion, which profoundly affects both legislation and public behavior—the future of conservation is largely a matter of public opinion. The members of the Ohio Academy of Science occupy a position that provides an outstanding opportunity to promote proper understandings concerning conservation through education. Many members have daily contact with large numbers of our future citizens in the classroom and have countless opportunities to use scientific facts to drive home the social importance of conservation of our natural resources. Your committee recognizes that the prime purpose of teaching is not to fill heads with knowledge—it is to guide hands and feet into a pattern of behavior that will enable students to live better with each other and with their world in every day life.

The teacher should remember that his position causes his opinions to be greatly respected in the community in which he lives. It is his duty as well as his privilege to mould the opinion and guide the behavior of his community. In meetings of civic groups and in the columns of local newspapers, the Academy member can do much to influence community thought and action in matters of conservation. Your committee recommends that members of the Academy seek and accept opportunities to render this kind of community service.

Another field of conservation education lies in the boys and girls of our public schools. In this connection, attention is called to the new section of the Academy for public school teachers. As a part of their activities, this new section will develop and guide the Junior Academy of Science, whose membership will be composed of boys and girls of the public schools. The value of this section and of the Junior Academy of Science to all that the Ohio Academy of

Science stands for and its value to conservation is apparent. Your committee strongly recommends that the Academy shall give the new section a cordial welcome and that individual members shall give it active assistance.

Respectfully submitted,

CLARENCE TAFT,
E. W. E. SCHEAR,
R. V. BANGHAM,

C. L. DOW,
R. W. FRANKS,
GUY CONREY,
A. R. HARPER, *Chairman.*

REPORT OF THE COMMITTEE ON NECROLOGY

The Committee on Necrology reports with deep regret the death of six members of the Academy since the last annual meeting. The following memorial statements were written by colleagues of the deceased members as indicated by the name following each statement.

Respectfully submitted,

E. G. DETWEILER,
H. R. EGGLESTON,
J. ERNEST CARMAN, *Chairman.*

GUY WOOLARD CONREY

Guy Woolard Conrey, Professor of Agronomy, Ohio State University, died at his home April 20, 1948. He was born in Northboro, Iowa, December 10, 1887. Surviving are his wife and two daughters.

Dr. Conrey received the B.A. and M.A. degrees from the University of Michigan in 1908 and 1909, respectively, and the Ph.D. degree at the Ohio State University in 1921. Dr. Conrey served as Assistant in the Division of Soils of the Wisconsin Geological and Natural History Survey from 1909 to 1917. He came to Ohio in 1917 as Instructor in soils, and Assistant in Soil Survey, was placed in charge of the Soil Survey in Ohio in 1925, and was progressively promoted to Professor of Agronomy at Ohio State University and Associate Agronomist of the Ohio Agricultural Experiment Station.

Dr. Conrey was a fellow of the Ohio Academy of Science and the American Society of Agronomy. He was a member of the Soil Science Society of America, the American Association for the Advancement of Science, the American Geographic Association, the American Forestry Society, the Geophysical Union, and the International Society of Soil Science. His interest and activity in his profession is evidenced through his several chairmanships and committee assignments that he held in these societies. He was also a member of Sigma Xi, Phi Lambda Upsilon and Gamma Sigma Delta honorary societies.

Dr. Conrey's principal interest was in the field of soil science; specifically, soil morphology classification, technology and land use. He was also intensely interested in geology, mineralogy, and geography, subjects that are closely linked with soil science and his studies have tended to clarify many of the interrelationships of these fields. With a broad concept of the factors involved, Dr. Conrey and his associates have contributed very materially to our present concepts of soil development and classification. Further, his work in the relationships of soil characteristics, soil productivity, and soil management has led to greater practical application of soil research results.

Dr. Conrey was an inspiring teacher, both in the classroom and in the field. His thorough understanding of the field of soils, and its relationship to other sciences, together with his kindly nature and ability to explain complex relationships in simple language, insured his popularity as a lecturer. His courses were among the most popular in the college. His activity in the fields of geology, geography, and economics gave him a rare insight into the field of soils that was reflected in his teaching as well as his research activities.

Although his health was impaired, Dr. Conrey assumed extra duties directly concerned with the war effort in 1941. In addition to his already heavy load of work, he taught courses in A.S.T.P. and applied his soils knowledge in locating airfield, manufacturing and war materials storage sites. Even after a severe stroke in 1944, from which he never fully recovered, he contributed a great deal through conferences, correspondence, and his writings.

—D. D. Mason and D. R. Dood.

JOHN SCOTT GILLESPIE

Mr. J. S. Gillespie, a member of the Academy for 22 years, died at his home in Columbus on August 31, 1947. Mrs. Gillespie had preceded him by about ten years.

Mr. Gillespie was a geologist who had been on the staff of the Ohio Fuel Gas Company from 1918 until retired from active service in 1936. He was born on February 22, 1864, on a farm near Washington C. H., Ohio. After finishing school he took employment with the D. T. & I.

Railway at Waverly, where he learned telegraphy and had his first experience in railroad operation. This career he followed for a number of years, holding the position of division superintendent of the B. & O. at Newark and at Zanesville. Later he held important posts with several western roads, his work finally taking him to Spokane, Washington, where he was so impressed with the future of the Northwest that he went into promotional work and served as secretary of the Spokane Chamber of Commerce for a time.

From early youth Mr. Gillespie was greatly interested in geology. His work and travel so intensified that interest that his avocation finally became his full-time occupation. His geological training was almost entirely through reading, experience, and observation, but it was sound training, as those who knew him will testify.

John Scott Gillespie was one of those rare individuals who seemed younger than his years because of his abounding curiosity, and particularly because of his great interest in scientific investigation. His many friends remember him as a gentle man of penetrating insight, of kindly wit, and of unwavering loyalty.—*K. C. Cottingham.*

JOHN SAMUEL HOUSER

John Samuel Houser was born April 19, 1881, on a farm near Oxford, Kansas. He graduated from high school in Oxford and then entered Kansas State Agricultural College where he became interested in the subject of entomology. He was graduated with the class of 1904 and immediately went to work in the Department of Entomology at the Ohio Agricultural Experiment Station. In 1907 he was granted a two-year leave from the Ohio Station to carry on entomological work in Cuba—working at the Estacion Experimental Agronomica at Santiago de Las Vegas. He returned to the Ohio Experiment Station as an associate in 1909. In 1926, Mr. Houser became chief of the Department of Entomology, which position he occupied at the time of his death. He received the M.S. degree from Cornell University in 1911, and the honorary degree of Doctor of Science from his alma mater, Kansas State Agricultural College, in 1944.

Dr. Houser's chief interest was in the field of forest insects. He loved to camp in the State Forests, to roam the hills studying trees and insects. He was the first entomologist to use the airplane to disperse insecticides—the test being directed against the catalpa hornworm which was devastating a grove in Miami County, Ohio, in the summer of 1921. He was a charter member of the Entomological Society of America, a member of the American Association for the Advancement of Science, Past President of the American Association of Economic Entomologists, and a Fellow of the Ohio Academy of Science.

Dr. Houser was the author of many scientific and popular entomological papers. His best known publication is the Ohio Experiment Station Bulletin entitled: "Shade and Forest Tree Insects" which, though published nearly thirty years ago is still used by working entomologists.

Dr. Houser died suddenly on the night of June 25, 1947, from the effect of a recurring heart attack from which he had been suffering for about two years. His wife, Elizabeth, died in 1941. He is survived by two married daughters; by a brother and a sister, each living in Kansas.—*T. H. Parks.*

RAYMOND JESSE SEYMOUR

The death of Professor Emeritus Raymond Jesse Seymour which occurred on April 10, 1948, brought to a close the career of a man who had spent 45 years in faithful and distinguished service to the College of Medicine and the Ohio State University.

Dr. Seymour was born in Groveport, Ohio, in 1878. He received the Bachelor of Science Degree from the Ohio State University in 1900, the Degree Master of Science from Tufts College in 1901, and the Degree Doctor of Medicine from the Ohio Medical University in 1903. He began his career as a teacher in 1903 when he was appointed an assistant in the Department of Pathology. He joined the staff of the Physiology Department in 1905, and served this department continuously until his death. He was given the rank of Professor of Physiology in 1928 and served for seven years as Chairman of the Department. Dr. Seymour was particularly gifted as a teacher of beginning students and was unexcelled in the clear, concise, and simple exposition of the fundamental concepts of physiology. Thousands of students have profited from their associations with him. His broad background of preparation and his fine personality made him a leader among his colleagues and a wise councillor and guide of students. In 1944, poor health forced him to give up active teaching and he was given the rank of Emeritus Professor. However, even after his retirement, he maintained his active interest in the Department, and was always ready to offer his advice and council in matters of administration.

For many years Dr. Seymour was an active and enthusiastic member of the Ohio Academy of Science. From 1920 to 1922 he served as Vice-President of the Academy and Chairman of the Medical Science Section. His council and advice will be sorely missed, and the Ohio Academy of Science wishes to record their sincere appreciation of Dr. Seymour's long and distinguished services and to express their profound sorrow at his passing.—*F. A. Hitchcock.*

JULIUS F. STONE

Julius F. Stone was a successful banker and industrialist but he was quite at home wherever the language of science was spoken. He was a distinguished explorer in his own right and an amateur astronomer of note. He was so impressed by the importance of biology that he gave Gibraltar Island, long the summer home of Jay Cooke, the Civil War banker, to the Ohio State University as the site for its year-round marine biological laboratory. He was a prime mover in the University's Research Foundation which he served as president. He was the modest and often anonymous donor of scientific apparatus and equipment to the University—notably its cyclotron. During his long years of service on the University Board of Trustees he was always mindful of the scientific and technical departments. As evidence of his own standing as a man of science, he was a fellow of the American Geographical Society and of the Royal Astronomical Society. He also held membership in the American Astronomical Society, in the American Society of Mechanical Engineers, and in the exclusive Explorers' Club, of New York. He made the first organized boat trip with a party through the entire course of the Colorado River. The story of this trip was told in his *Canyon Country*, published in 1932. He was a master of the English language—spoken or written,—a rare companion, a man whose interests were as broad as all human experience. The cause of science, and particularly of scientific research, lost a devoted follower when he died in 1947.—*James E. Pollard.*

LEWIS GARDNER WESTGATE

By the death of Dr. Lewis G. Westgate, March 30, 1948, at Delaware, Ohio lost a discerning student of local geology, the nation one of its most adept teachers, and the college world one of its most skillful educators. Dr. Westgate in many respects was a unique personality, although outwardly scarcely different from other scholars. Much interested in the interpretation of geology in the field, he was first and foremost interested in developing the scholarly and scientific potentialities of college students. He was intolerant of sham and subterfuge, either by students or men in private or public activities. The student who tried to "get by" in his classes soon learned, often to his discomfiture, what education really meant.

He was widely read, scholarly, and an independent and precise thinker. His formula for teaching might be stated in two words: What? Why? His type of humor, at times rather puchish, and incisiveness of speech, coupled with pertinent illustrations from the current scene, made his chapel talks long remembered.

Dr. Westgate was born in 1868 in Phenix, R. I. His B.A. degree was obtained at "Old" Wesleyan in 1890; his M.A. from Harvard in 1892, and his Ph.D. there in 1896. At Wesleyan he was under the influence of renowned men, including William North Rice. At Harvard he became more or less a disciple of William Morris Davis, famed geographer and geomorphologist. His first teaching was in the public schools at Evanston, Ill. After several years there he came to Ohio Wesleyan University in 1900 as Professor of Geology. Here he served for the remainder of his life.

He was a Fellow of the Geological Society of America and a member of other scientific societies. He was president of the Ohio Academy of Science in 1910.

His main contribution to the geology of Ohio was the "Geology of Delaware County," published in 1926 as Bulletin 30 of the Geological Survey of Ohio. Numerous papers on various phases of geology were published in technical periodicals and as reports of the U. S. Geological Survey. Articles expressing some of his views on education and the philosophy of living appeared from time to time elsewhere. Several summers were spent in field work for the United States Geological Survey in Alaska and in the western states.—*Arthur Bevan.*

REPORT OF COMMITTEE ON RESOLUTIONS

Be it Resolved, that the members of the Ohio Academy of Science express to the administration of the University of Toledo, and to the Local Committee under the able leadership of Dr. A. N. Solberg, its appreciation of the hospitality so freely extended and the excellent facilities furnished, which have made this, our fifty-seventh annual meeting, so pleasant and successful.

Be it further Resolved, that the Ohio Academy of Science express to President Wilbur W. White and the faculty of the University of Toledo, its felicitations on the achievement of the seventy-fifth anniversary of this notable institution of learning.

Respectfully submitted,

W. C. KRAATZ,
P. B. SEARS,
N. MOGENDORFF, *Chairman.*