

ANNUAL REPORT OF THE OHIO ACADEMY OF SCIENCE 1949

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

OFFICERS AND COMMITTEES FOR 1949-1950

President

PAUL B. SEARS

Vice-Presidents

- A. *Zoology*: W. F. HAHNERT
B. *Plant Science*: J. F. STANFIELD
C. *Geology*: R. J. BERNHAGEN
D. *Medical Sciences*: I. D. PUPPEL
E. *Psychology*: A. G. BILLS
F. *Physics and Astronomy*: M. L. POOL

- G. *Geography*: C. M. WILSON
H. *Chemistry*: R. G. BOSSERT
I. *Mathematics*: L. P. CUMMINS
J. *Science Education*: H. C. HULME
K. *Anthropology*: F. L. UTLEY

Secretary

RUSH ELLIOTT

Treasurer

R. M. GEIST

Historian

WILLIAM H. ALEXANDER

COMMITTEES

Executive Committee

Ex-Officio: PAUL B. SEARS, RUSH ELLIOTT, R. M. GEIST

Elective: G. B. BARBOUR, G. W. BLAYDES

Membership

- A. *Zoology*: G. D. MORGAN, Chairman
B. *Plant Science*: C. C. ALLISON
C. *Geology*: J. O. FULLER
D. *Medical Science*: C. A. ANGERER
E. *Psychology*: C. O. MATHEWS
F. *Physics and Astronomy*: H. V. KNORR

- G. *Geography*: H. F. RAUP
H. *Chemistry*: G. L. ORR
I. *Mathematics*:
J. *Science Education*: HARLEY ELLINGER
K. *Anthropology*: KURT H. WOLFF

Nominating

VICE-PRESIDENTS OF 1948-1949, E. T. BODENBERG, Chairman

Program

VICE-PRESIDENTS OF SECTIONS AND SECRETARY

Library

MISS LILLIAN MICHAELIS, Chairman

Librarian in charge of Academy Exchanges and Publications

R. A. HEFNER.....Term expires 1951 W. M. TIDD.....Term expires 1953

Publications

SECRETARY, Chairman

R. A. HEFNER.....Term expires 1951
W. M. TIDD.....Term expires 1953

Necrology

J. E. CARMAN, Chairman...Term expires 1950
CARL VER STEEG.....Term expires 1951
H. H. M. BOWMAN.....Term expires 1952

Conservation

C. A. DAMBACH, Chairman...Term expires 1950
R. V. BANGHAM.....Term expires 1950
R. W. FRANKS.....Term expires 1950
E. S. THOMAS.....Term expires 1951
P. B. SEARS.....Term expires 1951
FRANK J. WRIGHT.....Term expires 1951
JAMES R. BECK.....Term expires 1952
R. A. HEFNER.....Term expires 1952
E. L. RICE.....Term expires 1952

Resolutions

P. B. SEARS.....Term expires 1950
W. C. BEAVER, Chairman...Term expires 1951
H. R. EGGLESTON.....Term expires 1952

Trustees of Research Fund

E. LUCY BRAUN.....Term expires 1950
HERBERT O. OSBORN.....Term expires 1952
E. N. TRANSEAU, Chairman...Term expires 1951

Academy Representatives

- On the Joint Administrative Board of the Ohio Journal of Science:
R. A. HEFNER.....Term expires in 1951
W. M. TIDD.....Term expires in 1953
- On the Council of the A. A. A. S.: G. W. BLAYDES.
- On the Save-Outdoor-Ohio Council: R. W. FRANKS.

The Council for 1949-1950

ALLISON, C. C.	ELLINGER, HARLEY	KNORR, H. V.	PUPPEL, I. D.
ANGERER, C. A.	ELLIOTT, RUSH	MATHEWS, C. O.	RAUP, H. F.
BARBOUR, G. B.	FULLER, C. O.	MICHAELIS, LILLIAN	SEARS, P. B.
BERNHAGEN, R. J.	GEIST, R. M.	MORGAN, G. D.	STANFIELD, J. F.
BILLS, A. G.	HAHNERT, W. F.	OSBORN, HERBERT	TIDD, W. M.
BLAYDES, G. W.	HEFFNER, R. A.	ORR, G. L.	UTLEY, F. L.
BOSSERT, R. G.	HULME, H. C.	POOL, M. L.	WILSON, C. M.
CUMMINS, L. P.	LINDSEY, A. W.	POPHAM, R. A.	WOLFF, KURT H.
DAMBACH, C. A.			

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

The Academy met for the second time in this decade on the campus of Denison University on April 21, 22, 23. The Executive and Council meetings were held on April 21 and sectional meetings on April 22, 23. The local committee, under the chairmanship of Dr. A. W. Lindsey, had made excellent arrangements, the attendance was above average and programs were presented by all sections.

The first Annual Science Day for the Junior Academy under the reorganized plan was held on April 22, and this was an extremely successful program. The entire Junior Academy program is growing rapidly. The annual banquet and business meeting was held at the Granville Inn on Friday evening at 6:30. Dr. A. W. Lindsey served as toastmaster. Greetings were extended by Dean C. F. Richards of Denison University, and response was given by Dr. H. H. M. Bowman. The presidential address was given by Dr. George B. Barbour on the title, "Ape or Man? The Recent Discoveries in South Africa."

The annual report of the Secretary contained another milestone in the history of the Academy. Two hundred and twelve persons were elected to membership in the Academy, the largest number in any single year, and the total membership has passed the 1,000 mark for the first time.

The following persons were elected as fellows of the Academy:

JAMES A. BRIGHT	RICHARD P. GOLDTHWAIT	RALPH B. NEISWANDER
FLOYD J. BRINLEY	HAROLD C. HULME	GROVER L. ORR
E. R. BRYANT	ARNE V. HUNNINEN	EARL E. SANDERSON
HAROLD U. COPE	GEORGE A. KELLY	GEORGE S. SPERTI
WILLIAM P. CROSS	ELEANOR LONGBRAKE	ELIZABETH K. WEISBURGER
JAMES W. CUMMINS	JOSEPH T. MADDOX	CURTIS M. WILSON
HARLEY ELLINGER	JOHN H. MELVIN	KURT H. WOLFF
DANIEL L. FRIEDBERG		

The report of the Nominating Committee was presented by Dr. Ralph A. Dexter, 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 December 3, 1948, and again on April 21, 1949, and the Council on December 4, 1948, and again on April 21, 1949.

A special committee (R. L. Edwards, chairman, F. H. Kreckler, G. W. Blaydes, W. M. Tidd, and James Vaughn) appointed to study the allocation of funds of the Academy presented a report at the winter council meeting. The report was accepted and the committee discharged. Since the report did not cover some of the current problems, another committee (Eugene Van Cleef, chairman, F. H. Kreckler and A. W. Lindsey) was appointed to consider methods of increasing the income of the Academy and the allocation of the funds collected. This committee made a very exhaustive report at the April meeting of the Council, and a number of recommendations were made which will require amendments to the constitution. These are to be prepared for consideration by the Council in 1949-1950.

The Executive Committee received the resignation of W. M. Tidd as Treasurer and appointed R. M. Geist to complete the year. He was elected as Treasurer on the recommendation of the Nominating Committee.

The Council approved the election to Honorary Life Membership of E. L. Rice and Frank J. Wright.

The Council approved a number of recommendations presented by F. H. Kreckler for the Junior Academy program.

The 1950 annual meeting is to be held on the campus of Capital University on April 27, 28, 29, as a part of the centennial program of the University.

Respectfully submitted,

RUSH ELLIOTT, *Secretary.*

REPORT OF THE TREASURER

COLUMBUS, OHIO, April 21, 1949.

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, 1948. The books have been audited and the opinion of the auditor is herewith attached.

Respectfully submitted,

R. M. GEIST, *Treasurer.*

OHIO ACADEMY OF SCIENCE BALANCE SHEET As at December 31, 1948

ASSETS	
CURRENT EXPENSE FUND:	
Cash in Bank.....	\$ 489.62
Bonds owned:	
U. S. War Savings Bond—Series F (Cost).....	\$ 111.00
U. S. War Savings Bond—Series G (Cost).....	1,900.00
Total Bonds Owned.....	2,011.00
Total Assets—Current Expense Fund.....	\$2,500.62
RESEARCH FUND:	
Cash in Bank.....	\$ 239.11
Bonds Owned:	
Fort Hayes Hotel, Columbus, Ohio (Cost).....	\$1,300.00
U. S. War Savings Bond—Series G (Cost).....	300.00
Total Bonds Owned.....	1,600.00
Banc-Ohio Securities Stock.....	437.50
Total Assets—Research Fund.....	2,276.61
Total Assets.....	\$4,777.23
LIABILITIES AND NET WORTH	
CURRENT EXPENSE:	
Deferred Credits:	
1949 Dues collected in 1948.....	\$ 107.50
NET WORTH:	
Ohio Academy of Science:	
Current Expense Fund.....	\$2,393.12
Research Fund.....	2,276.61
Total Net Worth.....	4,669.73
Total Liabilities and Net Worth.....	\$4,777.23

OHIO ACADEMY OF SCIENCE STATEMENT OF INCOME AND EXPENSE
For the Year Ended December 31, 1948

CURRENT EXPENSE FUND

INCOME:	
Dues from Members.....	\$1,982.50
Grants for Research.....	156.25
Sale of Publications.....	10.00
Interest on Bonds.....	47.50
	<hr/>
Total Income.....	\$2,196.25
EXPENSES:	
Operating—	
Subscriptions—Ohio Journal of Science.....	\$1,147.50
Printing Proceedings 1948.....	174.25
Printing—other.....	276.40
Honorarium—secretary.....	150.00
Postage and Office Expense.....	226.61
Bank Charges.....	15.59
Clerical and Auditing.....	50.00
	<hr/>
Total Operating.....	\$2,040.35
Science Education Section—	
Postage and Office Expense.....	\$20.16
Printing.....	30.00
	<hr/>
Total Science Education Section.....	50.16
Non-Operating Expense—	
A. A. A. S. Research—Special Grant.....	156.25
	<hr/>
Total Expenses.....	2,246.76
	<hr/>
Excess of Expenses Over Income.....	\$ 50.51

RESEARCH FUND

INCOME:	
Gifts for Research.....	\$72.00
Interest.....	18.75
	<hr/>
Total Income.....	\$90.75
EXPENSES:	
Grants for Research.....	\$97.97
Bank Charges.....	.98
	<hr/>
Total Expenses.....	98.95
	<hr/>
Excess of Expenses Over Income.....	\$ 8.20

AUDITOR'S CERTIFICATE

COLUMBUS, OHIO, April 1, 1949.

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, 1948.

A detailed audit was made of all transactions handled by the treasurer. Cash in the 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 represents the financial position at December 31, 1948, and the results of operations on a cash basis for the year ending December 31, 1948. 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 present herewith a report of the grants made from the A. A. A. S. and the Academy for the year 1948.

As there had been no requests except a small one granted to Mr. Wood, the Chairman addressed a letter to other Trustees and to a few members who might know of worthy projects, stating that it was desirable at least to have applications to cover the allotment from the A. A. A. S. As a result he received some applications which, when approved by the Trustees, were assigned as follows:

To Mr. Ralph H. Bond for study of microscopic fossils, conodonts in shale formations, \$156.25 from the A. A. A. S. grant.

To Mr. Joe R. Stratton of The University of Toledo for securing and maintaining guinea pigs for experimental work, \$48.00.

To Dr. Ralph W. Dexter of Kent State University for studies on distribution of the Fairy Shrimp, \$25.00.

The grant to Mr. Richard D. Wood for plates to illustrate an article in the *Ohio Journal of Science* was \$26.80.

We may repeat the notice that we may expect some \$150.00 or more from the A. A. A. S. for 1949 and that our Academy fund now \$264.70, will permit other grants for desirable studies.

Respectfully submitted,

E. LUCY BRAUN,
EDGAR N. TRANSEAU,
HERBERT OSBORN, *Chairman*.

REPORT OF THE LIBRARY COMMITTEE

With a great amount of help from the Treasurer of the Academy, and the co-operation of each member contacted, the mailing list of the *Ohio Journal of Science* has been coded to show whether the recipient is a member, a subscriber, or on exchange.

There are now 356 exchanges, slightly fewer than when last reported.

In 1948 the sale of special papers amounted to ten dollars, which amount has been given the Treasurer of the Academy.

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 in Columbus, Ohio, April 9, 1949. The meeting was called to order by the Board Chairman, Dr. Spieker. Present were Drs. Meyer and Spieker representing the Ohio State University; Dr. Hefner representing the Academy; and Drs. Blaydes and Miller representing the *Ohio Journal of Science*. Dr. Anderson, an Academy representative, was unable to be in attendance. Dr. Spieker was nominated by Dr. Meyer to continue as Chairman. The motion was seconded by Dr. Hefner. Dr. Miller continued to serve as secretary of the Board.

The minutes of the preceding meeting were read and approved. The Chairman called for the report of the Business Manager. Dr. Miller's report was largely in the form of a financial statement for Volume 48 of the *Journal*. A copy of the financial statement is attached to this report. Dr. Hefner moved the acceptance of the financial statements as read; seconded by Dr. Meyer. The motion carried.

In commenting on the financial picture Dr. Miller called attention to the net loss in assets for the fiscal year of \$294.65, the operating balance on hand having been reduced from \$533.52 at the beginning of the fiscal year to \$238.87 at the close of business February 23, 1949. This difference is not due entirely to increased production costs. Volume 47 of the *Journal* cost \$3038.53 and Volume 48 cost \$3088.94, an increase of only \$50.41. The real difference is between the \$617.66 collected in 1947 as authors' payment of publication costs as compared with \$123.50 collected in 1948.

Dr. Miller also reported that during the year, in co-operation with the treasurer and librarian of the Academy, suitable keys were added to the filing and mailing stencils, thus facilitating easy recognition of members, subscribers and exchanges.

Dr. Hefner moved the acceptance of the Business Managers report; seconded by Dr. Meyer, and passed.

The Chairman then called for the Editor's report. Dr. Blaydes presented a review of papers in Volume 48. Briefly, Volume 48 consisted of 252 pages, consisting of 39 papers from 11 science areas. Four book reviews were also printed. There are 17 manuscripts on hand. Following the Editor's formal report the Board discussed the procedure in reviewing manuscripts. The Board concurred in the accepted procedure of submitting each manuscript to the Review Board. The report of the Editor was accepted on a motion by Dr. Meyer; seconded by Dr. Hefner.

The Chairman called for an election of Editor and Business Manager for Volume 49. Dr. Hefner moved the appointment of Dr. Blaydes as Editor for Volume 49. The motion was

seconded by Dr. Meyer. Dr. Blaydes was unanimously elected as Editor of Volume 49. Dr. Miller then presented his resignation as Business Manager of the *Journal* and Secretary of the Joint Administrative Board. Dr. Meyer moved the acceptance of Dr. Miller's resignation, seconded by Dr. Hefner, and passed by the Board.

Dr. Spieker then presented to the Board the task of nominating and selecting Dr. Miller's successor. In the discussion which followed mention of an assistant editor was introduced as being pertinent, Dr. Blaydes having indicated his desire to be relieved of the editorship in the near future.

Dr. Hefner presented the following motions, which were seconded by Dr. Spieker: first, Dr. Meyer and Dr. Miller be appointed with authority to interview and select from the list recommended by the Board, a new business manager; second, Dr. Spieker and Dr. Blaydes be appointed with authority to interview and select, from the list recommended by the Board, an assistant editor. Both motions were individually acted upon and passed by the Board.

Dr. Hefner moved, seconded by Dr. Meyer, that the Auditing Committee, composed of Drs. Spieker and Meyer, be retained and authorized to proceed with the auditing of the *Journal* business. Passed.

Dr. Spieker reported to the Board that Dr. Blaydes and himself called upon President Bevis of Ohio State University and requested that the University's stipend be increased from \$1000.00 to \$1500.00 per year. Dr. Spieker is awaiting the reply to this request.

Dr. Blaydes, as editor of the *Journal*, once again asked that the section Vice-Presidents of the Academy be on the alert during their programs for papers suitable for *Journal* publication. The Editor requests that such titles and authors be referred directly to him by section Vice-Presidents.

There being no further business the Board was adjourned on a motion by Dr. Meyer, seconded by Dr. Hefner.

Respectfully submitted,

JOHN A. MILLER,
Secretary of the Board.

THE OHIO JOURNAL OF SCIENCE

Fiscal Year 1948

RECEIPTS

Balance from 1947.....	\$ 533.52
University Allowance.....	1,000.00
Ohio Academy of Science—pro rate of dues.....	1,140.00
Ohio Academy of Science—proceedings.....	174.25
Subscriptions.....	145.00
Sale of back numbers.....	16.70
Author's payment for plates.....	194.84
Payment by authors and institutions of publication costs.....	123.50

\$3,327.81

EXPENDITURES

Spahr and Glenn, Printing—Vol. 48.....	\$2,594.24
Spahr and Glenn, Manilla Envelopes.....	63.55
Bucher Engraving Company.....	242.61
Postmaster.....	150.11
Bank Charges.....	1.68
Refund.....	1.50
Clerical Assistance.....	32.25
Labor.....	3.00

\$3,088.94

Balance on hand, Feb. 23, 1949, (Huntington National Bank, Columbus, Ohio)..... \$ 238.87

REPORT OF THE COMMITTEE ON CONSERVATION

Your Committee on Conservation offers the following report for the consideration and approval of the Ohio Academy of Science:

We note that 74 of Ohio's 88 counties now have organized soil conservation districts.

We note greatly increased attention given by public and private agencies to water conservation as it involves the retention of water where it is needed and also as it involves soil loss and floods.

We note greatly increased attention given by public and private agencies to the problem of water pollution in all its aspects.

We note increased attention to the matter of the conservation and restoration of our forests, to the development of ground cover for eroded lands, for the development of better land use programs in agriculture.

We note the development of programs for the conservation and restoration of wild life and these programs also have engaged the attention of private as well as state agencies.

We submit the thought that the research and the techniques resulting from such study which will result in an intelligent, comprehensive and correlated program of conservation lie entirely within the field of applied sciences and thus fall within the province of The Ohio Academy of Science.

It has been the practice in the past for this committee to recommend that the members of the Academy, as individuals, should not only make available to all agencies engaged in conservation their knowledge but to take an active part in conservation activities. However, the conservation of the natural resources of our state has now become a problem of such outstanding importance to the economy of the commonwealth that there is a feeling in the minds of your committee that the time has arrived for the Ohio Academy of Science to take an active and well-planned part as an organization in Ohio's program of conservation.

Therefore, your committee suggests and recommends that the President of the Academy shall create a Planning Board to formulate a suggested plan for the Academy's participation in the conservation program. We suggest that this planning group should include, in addition to the members of the conservation committee, such members of the Academy as can be of service in formulating the plan, these to be chosen by the President of the Academy. We suggest that the President set a date for the meeting or meetings of said Planning Board. We also suggest that it would be desirable for the Planning Board to have at least a preliminary report to present to the winter meeting of the Council of the Academy.

We suggest that the time and manner in which the final report of the Planning Board is to be presented to the Academy for discussion and approval shall be left to the discretion of the President.

Respectfully submitted,

C. E. TAFT,	E. S. THOMAS,
R. V. BANGHAM,	PAUL B. SEARS,
R. W. FRANKS,	F. J. WRIGHT,
C. A. DAMBACH,	A. W. HARPER, <i>Chairman.</i>

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,

H. R. EGGLESTON,
KARL VER STEEG,
J. ERNEST CARMAN, <i>Chairman.</i>

ROLLAND CRATEN ALLEN

The State of Ohio, the nation, the mining industry, and the scientific world lost an outstanding and distinguished citizen by the death of Rolland Craten Allen on July 18, 1949. Mr. Allen was born at Richmond, Indiana, in 1881, spent most of his early manhood in Wisconsin, about ten years of his middle manhood in Michigan, and the rest of his life as a citizen of Ohio. He received the Bachelor's degree from the University of Wisconsin in 1905, the Master's degree in 1908, and was awarded the honorary degree Doctor of Engineering by Rensselaer Polytechnic Institute in 1939.

Dr. Allen's service was both varied and important. After receiving the Bachelor's degree he taught high school at Plymouth, Wisconsin, and conducted geological exploration in Ontario, Canada. After receiving the Master's degree he was instructor in geology at the University of Michigan for one year (1908-1909) and then became State Geologist of Michigan, where he served for about ten years. From 1919 to 1947 he was connected with the Lake Superior Iron Ore Association, Cleveland, Ohio, first as vice-president and then as president. In 1921 he became executive in charge of mining operations for Oglebay, Norton and Co., Cleveland, and in 1924 executive vice-president. While serving with that company (1930-31) he went to Russia as an adviser on developing iron ores for the Russian government. He served the United States government during the first world war as a member of the Federal Excess Profits Tax Board, in charge of matters relating to natural resource industries, and again during the second world war with the Advisory Committee for National Defense, handling procurement of strategic minerals for iron and steel production, and with the War Production Board as vice-chairman of minerals and metals.

He was a member of the American Institute of Mining and Metallurgical Engineers (director, vice-president, president); the Society of Economic Geologists (director, vice-president); a fellow of the Geological Society of America; a member of the Mining and Metallurgical Society of America; the American Iron and Steel Institute; the American Academy of Political Science; the Cleveland Engineering Society; the American Association for the Advancement of Science; and the Society of the Sigma Xi. He was trustee of Western Reserve Academy, Hudson, Ohio (his home town); and trustee and president (at the time of his death) of Battelle Memorial Institute, Columbus, Ohio.

Mr. Allen's clear thinking, breadth of vision, good judgment, and understanding of people made him an outstanding personality. Of him it has been said by a close associate that he

"rendered unique service to his profession, to the mining industry and to his country, and created for himself a place in the hearts of all who knew him that remains an inspiration to them and a tribute to him as a splendid citizen."—*Carl A. Lamey*.

ARTHUR RIGGS ALTICK

Arthur Riggs Altick was born in Dayton, Ohio, June 22, 1891, and died July 21, 1947, from injuries received in an automobile accident. He graduated from the Springfield High School, Class of 1912, and later attended Wittenburg College. Early in his career he served as Secretary of the Springfield Chamber of Commerce, during which time he was active in Boy Scout affairs.

In 1933 Mr. Altick was elected Secretary of the Clark County Historical Society and Curator of its museum, which positions he held until his death. In this capacity he explored prehistoric mounds and village-sites in Clark and adjacent counties. He was an able artist, and his numerous reports of explorations, published in newspapers and magazines, were illustrated by his personal drawings. At the time of his passing he had in preparation a book-length manuscript recording his explorations and illustrating artifacts in the Clark County Museum and elsewhere.

Mr. Altick held memberships in the Ohio Academy of Science and the Society for American Archaeology. He is survived by his widow, Ethel, and two sons, Richard and Arthur.

—*H. C. Shetrone*.

FLOYD C. DOCKERAY

Floyd C. Dockeray, Professor in the Department of Psychology at The Ohio State University, died January 15, at the age of 68. His academic training was received at the University of Michigan with a Bachelor's degree in 1907, a Master's degree in 1909, and a Doctor's degree in 1915. He taught at the University of Kansas from 1910 to 1915 and 1917 to 1920, and then went to Ohio Wesleyan where he was chairman of the Psychology Department until he came to Ohio State in 1929. One of his major contributions at Ohio State was the supervision of the introductory courses in the department. He also contributed to the advanced teaching program and supervised the research work of many graduate students.

His research interests have been primarily in general and comparative psychology but also to some extent in aviation psychology. During the first war he contributed some pioneer work on the selection of airplane pilots and also learned to fly in that connection. For a time he supervised the infant behavior laboratory operated by the Psychology Department and the Medical School. During and subsequent to the last war he was active in aviation psychology problems and directed a number of projects sponsored by the National Research Council. His writings involve numerous research articles and a widely used textbook in beginning psychology. Doctor Dockeray belonged to Phi Beta Kappa, Sigma Xi, American Psychological Association, American Association for the Advancement of Science, Southern Society of Philosophy and Psychology as well as our own Ohio Academy of Science. In the long perspective he will be remembered best by some of his research contributions to theoretical psychology and by the careers of advanced students to whom he gave generously of his time in helping plan their graduate programs.—*Harold E. Burt*.

WILLIAM CLARENCE EBAUGH

William Clarence Ebaugh, Professor of Chemistry at Denison University, 1917–1944, died December 28, 1948, a few days prior to his seventy-second birthday.

He was born and educated in Philadelphia and received from the University of Pennsylvania the degrees of B. S. (1898) and Ph. D. (1901). During his earlier years he served as a chemist in an iron and steel laboratory near Reading, Pennsylvania, and with the American Smelting and Refining Company, Salt Lake City, Utah. He taught physics and chemistry at Kenyon College, Ohio (1901–1902), and from 1903 to 1915 was Professor and Director of the Department of Chemistry at the University of Utah.

From 1917 until the time of his serious illness in October, 1944, he was Professor of Chemistry and Department Head at Denison University, excepting the academic year 1930–31, when he taught as an exchange professor in Robert College, Istanbul, Turkey. After his illness in 1944 he lived in retirement, as Professor Emeritus in Granville.

In addition to his teaching and administrative duties he was active throughout his professional career as an industrial research worker, and as editor of scientific journals. His industrial research dealt primarily with steel analysis, smelter smoke, pollution of the atmosphere by smelter fumes, and gas producers. In Utah he served as associate editor of the *Journal of Industrial and Engineering Chemistry*, and at Denison he was for over twenty years the Secretary of the Denison Scientific Association and Editor of the *Journal of the Scientific Laboratories*.

Dr. Ebaugh was a member of many learned and professional societies, including the Ohio Academy of Science, the American Chemical Society, the American Association for the Advancement of Science, and the American Society for Engineering Education. He was a member of Sigma Xi, and of Beta Theta Pi, social fraternity. He served long and faithfully in the Baptist Church. His avocation was music and he was an excellent organist.

Dr. Ebaugh will be long remembered by his many students, associates and friends as a

vigorous man, staunch and energetic, kindly, sympathetic, generous and reliable as a friend and counsellor. His was a full life, filled with willing services—to family, students, and friends.—*W. A. Everhart.*

EDWIN LINCOLN MOSELEY

On June 6, 1948, Bowling Green State University lost one of her pioneer professors, and the Ohio Academy of Science one of its founders and charter members by the death of Dr. Edwin Lincoln Moseley. Of frail physique throughout life, he was nevertheless active almost to the time of his death, having shortly before made a second trip to Mexico.

Born in Union City, Michigan, in March, 1865, Edwin Moseley entered the University of Michigan at the age of sixteen, and received the A. B. and M. A. degrees in 1885. After teaching for two years in the Grand Rapids High School he joined the Beal-Steere Zoological Expedition to the Philippines and returned with the nucleus of what grew to be a very good collection of bird and mammal skins. By nature a prodigious collector of all kinds of scientific and historical materials, he developed a museum in the Sandusky High School, where he subsequently taught science for twenty-five years. In 1914 he was appointed a member of the original faculty of Bowling Green State University, which position he held until his retirement in 1935. Ultimately the Sandusky Museum was merged with the collections at Bowling Green State University. In 1943, he was awarded the degree of Doctor of Humane Letters, and was given the title of Curator of the University Museum.

The versatility of Professor Moseley is shown by the fact that during the early years at Bowling Green he taught geology, chemistry, and physics, as well as biology; and by his authorship of books of such diverse character as "Trees, Stars and Birds," "Our Wild Animals," and "Other Worlds." His journal papers were numerous and included such titles as "Milk Sickness Caused by White Snakeroot," "Sandusky Flora," and "Flora of the Oak Openings West of Toledo." In his latter years he devoted much study to tree rings, on the thesis that they might reveal evidence that could be used to predict cycles of rainfall. This work stimulated much interest, both locally and across the continent.

Living almost the life of a recluse, and abstemious to an extreme in matters pertaining to the comforts of life, Professor Moseley was quietly and unostentatiously philanthropic in numerous ways, taking much interest in, and often helping financially, students who showed promise of development, but who were handicapped by lack of financial support. It was in accord with this spirit that he willed his entire estate to aid worthy students at the institution in which he served so long.

Affiliated with a number of organizations and societies, Professor Moseley was a lifelong member of the American Society of Mammalogists, the Wilson Ornithological Club, the Michigan Academy of Science, and the Ohio Academy of Science (Secretary, 1895-1903; President, 1904).—*Charles H. Otis.*

GUY E. VANSICKLE

The Department of Chemistry of the University of Toledo sustained a sad and severe loss, on December 12, 1948, in the sudden death of Professor Guy E. VanSickle. His contribution to higher education in his field at the university over a period of thirty years has been of inestimable value, as has been his enrichment of the cultural and social life of the university faculty.

Professor VanSickle received his undergraduate training at the Ohio State University, Class of 1909, and continued in graduate study there to the Master's degree in 1911. He then taught chemistry in the Toledo high schools until 1918 when he was appointed Professor of Chemistry at the University of Toledo. He was a member of the American Association of University Professors, the Ohio Academy of Science, and the American Chemical Society. He was one of the founders, in 1917, of the Toledo Section of the American Chemical Society and had been, at various times, secretary, chairman and councillor. For many years he gave freely of his time and counsel as adviser to Chi Rho Nu fraternity.

Through his genial and friendly nature, his effective teaching techniques, and his willing counsel Professor VanSickle made a host of friends among his students, his associates, and his wide circle of acquaintances in Toledo. He is survived by Mrs. VanSickle and three sons, Homer, Carl, and James.—*Harold G. Oddy.*

REPORT OF COMMITTEE ON RESOLUTIONS

Be it Resolved, that the Ohio Academy of Science express to President Kenneth I. Brown of Denison University and to the local committee under the able leadership of Dr. A. W. Lindsey, its appreciation of the hospitality so freely extended and the excellent facilities furnished in this most inviting collegiate environment, which have made this, our fifty-eighth annual meeting, so pleasant and successful.

Be it further Resolved, that the Ohio Academy of Science express to Dr. Wilbur M. Tidd its thanks for his efficient services as Treasurer of the Academy, from which position he has recently resigned.

Respectfully submitted,

P. B. SEARS,
W. C. BEAVER,
W. C. KRAATZ, *Chairman.*