

ANNUAL REPORT OF THE OHIO ACADEMY OF SCIENCE
1950

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

OFFICERS AND COMMITTEES FOR 1950-1951

President

EDWARD S. THOMAS

Vice-Presidents

A. *Zoology*: G. D. MORGAN
B. *Plant Sciences*: C. C. ALLISON
C. *Geology*: J. O. FULLER
D. *Medical Sciences*: 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*: C. H. HEINKE
J. *Science Education*: HARLEY ELLINGER
K. *Anthropology and Sociology*: K. H. WOLFF

Secretary

RUSH ELLIOTT

Treasurer

R. M. GEIST

Historian

W. H. ALEXANDER

COMMITTEES

Executive Committee

Ex-Officio: E. S. THOMAS, RUSH ELLIOTT, R. M. GEIST

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

Membership

A. *Zoology*: A. N. SOLBERG, Chairman
B. *Plant Sciences*: F. J. BACON
C. *Geology*: C. N. SAVAGE
D. *Medical Sciences*: E. R. HAYES
E. *Psychology*:
F. *Physics and Astronomy*: A. L. LUTZ
G. *Geography*: L. R. FLETCHER
H. *Chemistry*: B. M. NORTON
I. *Mathematics*:
J. *Science Education*: C. T. HATHAWAY
K. *Anthropology and Sociology*: E. L. REYNOLDS

Nominating

VICE-PRESIDENTS OF 1949-1950, R. J. BERNHAGEN, Chairman

Program

VICE-PRESIDENTS OF SECTIONS AND SECRETARY

Library

MRS. MARGARET MCCARTNEY, Chairman

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

Conservation

E. S. THOMAS..... Term expires 1951
P. B. SEARS..... Term expires 1951
F. J. WRIGHT..... Term expires 1951
J. R. BECK, Chairman..... Term expires 1952
R. A. HEFNER..... Term expires 1952
E. L. RICE..... Term expires 1952
R. W. DEXTER..... Term expires 1953
R. W. FRANKS..... Term expires 1953
L. S. ROACH..... Term expires 1953

Necrology

KARL VER STEEG..... Term expires 1951
H. H. M. BOWMAN, Chairman..... Term expires 1952
RODERICK PEATTIE..... Term expires 1953

Resolutions

W. C. BEAVER, Chairman... Term expires 1951
H. R. EGGLESTON..... Term expires 1952
A. W. LINDSEY..... Term expires 1953

Trustees of Research Fund

E. N. TRANSEAU, Chairman, Term expires 1951
HERBERT O. OSBORN..... Term expires 1952
G. B. BARBOUR..... Term expires 1953

Academy Representatives

1. On the Joint Administrative Board of the Ohio Journal of Science:

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

2. On the Council of the A. A. A. S.: RUSH ELLIOTT.

The Council for 1950-1951

C. C. ALLISON	L. R. FLETCHER	F. H. KRECKER	H. F. RAUP
C. A. ANGERER	J. O. FULLER	A. L. LUTZ	E. L. REYNOLDS
F. J. BACON	R. M. GEIST	MRS. MARGARET McCARTNEY	C. N. SAVAGE
G. B. BARBOUR	E. R. HAYES	C. O. MATHEWS	A. N. SOLBERG
J. R. BECK	C. T. HATHAWAY	G. D. MORGAN	E. S. THOMAS
G. W. BLAYDES	R. A. HEFNER	B. M. NORTON	W. M. TIDD
HARLEY ELLINGER	C. L. HEINKE	G. L. ORR	E. N. TRANSEAU
RUSH ELLIOTT	H. V. KNORR	R. A. POPHAM	K. H. WOLFF

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

As a part of the centennial program of Capital University, the Academy was invited to meet on the campus of Capital and to enjoy the facilities of the new Science Hall. The meetings were held on April 27, 28, and 29. The local committee, under the chairmanship of Dr. R. M. Geist, had made splendid provision for all needs. The registration for the meeting hit an all-time high and the quality of the meetings seems to be improving each year.

Each section of the Academy had a good program and one of the outstanding features of the meeting was the second Annual Science Day of the Junior Academy. This project has developed very rapidly and is proving to be an extremely valuable part of the program of The Senior Academy.

The annual banquet and business meeting was held in the Refectory at Capital University on Friday evening at 6:45. Dr. R. M. Geist served as toastmaster, greetings for the host institution were extended by President Harold L. Yochum and the response was given by Dr. E. L. Rice. The presidential address was given by Dr. Paul B. Sears on the title, "Conservation in Theory and Practice."

The annual report of the past year's activities presented by the secretary included a most gratifying membership report. Last year we had passed the 1000 mark in our total membership. This year we were seven members short of the 1200 mark. Two hundred sixty-one new members were added in the past year—an all-time record for a single year. Unfortunately we lose some members each year.

The following persons were announced as newly elected Fellows of the Academy:

ROBERT L. ALKIRE	PAUL W. HYDELL	CONRAD E. RONNEBERG
K. DALE ARCHIBALD	RUTH W. HERSHBERGER	JULIA E. ROTHERMEL
CLIFFORD O. BERG	R. GEORGE JAAP	CARLETON N. SAVAGE
A. H. BLICKLE	LOWRY B. KARNES	JAMES M. SCHOPF
WILLIAM F. BRADLEY	ARTHUR S. KIEFER	G. T. SCOTT
A. B. BROWER	AURELE LA ROCQUE	FRANK M. SEMANS
THOMAS B. CAMERON	IAN R. MACGREGOR	PAUL J. SEYLER
JAMES F. CORWIN	RICHARD H. MAHARD	GEORGE T. SIEMENS
GEORGE CROWL	FRANK G. MESERVE	GEORGE E. SIMPSON
W. MERRILL DAVIS	DOROTHY CLUM MORSE	ELIZABETH W. SMITH
CLARENCE L. DOW	EVERETT C. MYERS	WILLIAM D. STULL
ERIKA EICHORN	STANLEY E. NORRIS	HENRY F. STROHECKER
HENRY C. EYSTER	BAYES M. NORTON	CHARLES SUMMERSON
HENRY FEDERIGHI	L. C. PETTIT	CHARLES M. VAUGHN
ALLEN S. FOX	JOHN R. RANDALL	JACOB VERDUIN
WILLIAM D. GRAY	EARLE L. REYNOLDS	HERMAN VON DACH
C. T. HATHAWAY	JOHN S. RICHARDSON	JOHN W. WARGO
GALE A. HERBERT	WILLIAM L. ROBINSON	CLAIR L. WORLEY

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

Respectfully submitted,
RUSH ELLIOTT, *Secretary*.

REPORT OF THE EXECUTIVE COMMITTEE AND COUNCIL

The Executive Committee met on December 9, 1949, and again on April 27, 1950, and the Council on December 10, 1949, and again on April 27, 1950.

A special committee (Eugene Van Cleef, Chairman, F. H. Kreckler and A. W. Lindsey) appointed to consider methods of increasing the income of the Academy and the allocation of the funds collected had reported at the Council meeting on April 21, 1949. This report contained a number of recommendations which required constitutional amendments. These were prepared by the secretary, as instructed, were approved by the Executive Committee, by vote of the Council, and final approval was voted by the Academy members in attendance at the annual business meeting. One of these amendments increased the annual dues to \$3.00. Another provided for Institution Memberships for colleges and Universities and twelve such memberships have been secured to date. A third type of membership is Corporation Membership and four Corporations have taken memberships to date.

The Council accepted with deep regret the resignation of Dr. Herbert O. Osborn as Chairman of the Trustees of the Research Fund and of Miss Lillian Michaelis as Librarian for the Academy.

The 1951 annual meeting is to be held at Miami University on April 5, 6, and 7.

Respectfully submitted,

RUSH ELLIOTT, *Secretary*.

REPORT OF THE TREASURER

COLUMBUS, OHIO, April 28, 1950.

To the Ohio Academy of Science:

I herewith submit a financial statement of the condition of the Ohio Academy of Science as of December 31, 1949. The books have been audited and the auditor's certificate is herewith attached.

Respectfully submitted,

R. M. GEIST, *Treasurer*.

OHIO ACADEMY OF SCIENCE BALANCE SHEET

As at December 31st 1949

ASSETS

CURRENT EXPENSE FUND:

Cash in Bank.....	\$ 687.77
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..... \$2,698.77

RESEARCH FUND:

Cash in Bank.....	\$ 224.84
Bonds Owned:	
Fort Hayes Hotel—Columbus, Ohio (cost).....	\$1,300.00
U. S. War Savings Bonds—Series G (cost).....	300.00
Total Bonds Owned.....	<u>1,600.00</u>

Banc-Ohio Securities Company Stock..... 487.50

Total Assets—Research Fund..... 2,262.34

Total Assets..... \$4,961.11

LIABILITIES AND NET WORTH

LIABILITIES:

CURRENT EXPENSE FUND:

Deferred Credits to Dues—
1950 Dues Paid in 1949..... \$ 47.50

NET WORTH:

Ohio Academy of Science:

Current Expense Fund..... \$2,651.27

Research Fund..... 2,262.34

Total Net Worth..... 4,913.61

Total Liabilities and Net Worth..... \$4,961.11

OHIO ACADEMY OF SCIENCE STATEMENT OF INCOME AND EXPENSE
For the Year Ended December 31, 1949
CURRENT EXPENSE FUND

INCOME:	
Membership Dues 1949 and Prior Years.....	\$2,362.50
Sale of Publications.....	46.55
Interest on Bonds.....	47.50
Refunds—Surety Bond.....	.89
Total Income.....	\$2,457.44
EXPENSES:	
Subscriptions—Ohio Journal of Science.....	\$1,326.00
Printing Proceedings 1949.....	\$ 107.90
Printing—Office Supplies.....	156.51
Printing—Other.....	309.28
Total Printing Expense.....	573.69
Honorarium—Secretary.....	160.00
Postage, Telephone and Office Expense.....	89.15
Bank Charges.....	20.45
Auditing.....	25.00
Bond—Treasurer.....	5.00
Total Expenses.....	2,199.29
Excess of Income Over Expense.....	\$ 258.15

RESEARCH FUND

INCOME:	
Grants for Research A.A.A.S.....	\$ 236.25
Interest on Bonds.....	65.75
Dividends Received.....	12.50
Total Income.....	\$ 314.50
EXPENSES:	
Grants for Research.....	\$ 309.18
Plates for Knull Article—Ohio Journal of Science.....	17.27
Bank Charges.....	2.32
Total Expenses.....	328.77
Excess of Expense Over Income.....	\$ 14.27

AUDITOR'S CERTIFICATE

COLUMBUS, OHIO, April 1, 1950.

The Ohio Academy of Science, Columbus, Ohio.

GENTLEMEN:

Pursuant to your instructions, I have examined the accounts and records of the Treasurer of the Ohio Academy of Science for the year ended December 31, 1949.

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 statements of income and expense (cash basis) fairly represent the financial position as at December 31, 1949, and the results of operations on a cash basis for the year ending December 31, 1949. 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

COLUMBUS, OHIO, April 27, 1950.

To the Ohio Academy of Science:

The Trustees of the Research Fund present the following Report on the receipts and expenditures during the year 1949:

RECEIPTS:

Bank Balance on January 1, 1949.....	\$239.11
Received from the A. A. A. S.....	236.25
Received from Investments.....	78.25
Total Income.....	\$553.61

EXPENDITURES:

March 30—To Joseph R. Stratton, University of Toledo, for establishing and maintaining an experimental colony of guinea-pigs.....	\$ 48.00
August 6—To John F. Hopkins, Oberlin College, for aid in collecting peat samples in Canada.....	236.18
August 6—To Joseph Knull, Ohio State University, for illustrations in the Ohio Journal of Science.....	17.20
December 20—To Ralph Dexter, Kent State University, for field study of Fairy Shrimps.....	25.00
Bank Charges.....	2.39
Total Expenditures.....	\$328.77

Bank Balance on January 1, 1950.....	\$224.84
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There will therefore be several hundred dollars available for research aid during this year.

Respectfully submitted,
E. LUCY BRAUN,
HERBERT OSBORN,
E. N. TRANSEAU, *Chairman.*

REPORT OF THE LIBRARY COMMITTEE

Nine new exchanges were added to the list in 1949. Two were dropped for failure to send anything in return. The Business Manager removed most of the Chinese addresses which remained, because of postal problems.

Sale of publications amounted to \$46.55. That amount has been turned over to the Treasurer of the Academy.

Respectfully submitted,
LILLIAN MICHAELIS, *Librarian.*

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

A special meeting of the Joint Administrative Board of the Ohio Journal of Science was held in Columbus, Ohio, October 15, 1949. Those present were Drs. Spieker and Meyer representing the Ohio State University; Drs. Hefner and Tidd representing the Ohio Academy of Science; and Drs. Blydes and Popham representing the Ohio Journal of Science.

Dr. Popham presented facts and figures concerning the financial status of the Journal. Following this report, the Board voted to increase the subscription rate of the Journal to \$4.00 per year, effective as soon as practicable. The price of all back issues of the Journal was set at \$1.00 per copy, and the price of all back volumes was set at \$4.00 per volume. The Business Manager was authorized to accept advertising for the Journal, the details of rates and kinds of advertising to be left to the discretion of the Business Manager.

The Board requested that the Council of the Ohio Academy of Science deposit a copy of the minutes of its meetings with the secretary of the Joint Administrative Board of the Journal. The Editor of the Journal was directed to contact the Vice-President of each section of the Academy each year, and to encourage him to secure papers from his own field of science for publication in the Journal.

Dr. Spieker made a progress report concerning the selection of the new Editor for the Journal. A discussion followed.

There being no further business, the Board was adjourned.

Respectfully submitted,
RICHARD A. POPHAM,
Secretary of the Board.

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 25, 1950. Those present were Drs. Spieker and Meyer representing the Ohio State University; Dr. Tidd representing the Ohio Academy of Science; and Drs. Blaydes, Popham, and Bohning representing the Ohio Journal of Science. Dr. Hefner, an Academy representative, was unable to attend.

Following the election of Dr. Spieker as Chairman of the Board, the minutes of the preceding meeting were read and approved.

Dr. Blaydes was elected to serve as Editor for Volume 50 of the Journal. Dr. Popham was elected Business Manager, and Dr. Bohning was elected Advertising Representative. The Board authorized the Editor to appoint an Associate Editor, in charge of book reviews, and recommended that the number of book reviews per volume be increased.

The report of the Business Manager was mainly in the form of a financial statement for Volume 49, a copy of which is attached to this report. The Editor, Dr. Blaydes, reported that a total of 41 papers covering 252 pages, were published in Volume 49. The papers were contributed from 13 different fields of science. Five book reviews were also printed. There were 15 manuscripts on hand at the end of the year. Both reports were accepted and filed.

Dr. Bohning presented an informal report of the Advertising Representative, indicating that 289 companies have been contacted regarding the placing of ads in the Journal. He reported that ads had been obtained from 11 companies and that many have asked to be contacted in the fall, at which time they will determine their 1951 advertising budgets. He also called attention to the fact that the cost of securing advertising was very high, and that to date the Journal had not realized a net profit from this operation.

The Board established a policy of electing the Vice-Presidents of the various sections of the Academy to positions as members of the Editorial Board for the period of their service as Vice-Presidents.

The Editor once again asked that the section Vice-Presidents of the Academy be on the alert during their programs for papers suitable for publication in the Journal. The Editor requested that such titles and authors be referred directly to him by the section Vice-Presidents.

There being no further business, the Board adjourned.

Respectfully submitted,

RICHARD A. POPHAM,
Secretary of the Board.

THE OHIO JOURNAL OF SCIENCE

Fiscal Year 1949

RECEIPTS

Bank Balance, Feb. 23, 1949.....	\$ 238.87
Ohio State University—Paid for Subscriptions.....	1,300.00
Ohio Academy of Science—Paid for Subscriptions.....	1,390.50
Non-members—Paid for Subscriptions.....	152.50
Sale of Separate Numbers, Volumes, and Reprints.....	518.22
Authors—Paid for Plates.....	152.88
Ohio Academy of Science—Paid for Annual Report.....	107.90
Authors and Institutions—Paid for Printing.....	100.00
	\$3,960.87

EXPENDITURES

Spahr & Glenn—Printing Journal.....	\$3,003.30
Spahr & Glenn—Mailing Envelopes.....	82.60
Bucher Engraving—Plates.....	295.59
Postage and Express.....	187.95
Office Supplies and Bank Charges.....	151.31
Refunds.....	2.50
Secretary and Labor.....	38.70
Bank Balance, Jan. 18, 1950.....	198.92
	\$3,960.87

REPORT OF THE COMMITTEE ON CONSERVATION

The Conservation Committee held two meetings during the past year to plan appropriate activities and to discuss conservation matters relating to the Academy. Both meetings were held at Columbus, Ohio, on December 10, 1949, and February 4, 1950, respectively. The Committee following its December 10th meeting recommended to the Council that the Ohio Academy of Science conduct a symposium on conservation at the annual meeting and that the Academy express to the Director of the newly created Ohio Department of Natural Resources support in the development of an effective conservation program in the state. Both recommendations were approved by the council and have been put into effect, the former by the symposium planned for presentation at 4:15 P. M. Friday, April 28, in Troutman Hall, Capital University, and the latter by an appropriate letter from the Secretary to Mr. A. W. Marion, Director of the Department of Natural Resources.

The Committee in planning this first conservation symposium felt that it should logically be the fore-runner of a series of such symposia designed to acquaint the membership of the Academy with conservation problems, programs and progress in the state. The first symposium is planned to present an over-all picture of the organization of the Department of Natural Resources created by Amended Senate Bill Number 13 passed by the last General Assembly of the State of Ohio and of the water and geological survey division of that department. It is the hope and recommendation of the Committee that similar symposia be held in subsequent years on other aspects of conservation.

The Committee also plans to hold an informal discussion with a group of persons concerned with education administration to consider an approach to the large problems of developing a significant program of conservation education in the public schools of the State. This meeting is tentatively planned for mid-May of this year.

The Committee feels that the Ohio Academy of Science has an opportunity to be of real service to the conservation program of the state through offering appropriate leadership and guidance. To this end it is our belief that the Committee could be made more effective if its membership included representatives of all the fields directly concerned with resource management. We, therefore, recommend that an effort be made through subsequent appointments to the Committee to see that adequate representation is given to the fields of soil, water, forest, mineral and wildlife conservation.

Respectfully submitted,

R. V. BANGHAM,	E. L. RICE,
JAMES R. BECK,	P. B. SEARS,
R. W. FRANKS,	E. S. THOMAS,
R. A. HEFNER,	FRANK J. WRIGHT,
CHARLES A. DAMBACH,	<i>Chairman.</i>

REPORT OF THE COMMITTEE ON NECROLOGY

The Committee on Necrology reports with deep regret the death of five 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. H. M. BOWMAN
KARL VER STEEG
J. ERNEST CARMAN, <i>Chairman.</i>

EDMUND SECREST

Dr. Edmund Secrest, director of the Ohio Agricultural Experiment Station from 1937 to 1947 and former State Forester, died November 28, at Ford Hospital in Detroit following a brain operation. He was 68.

Dr. Secrest was known as the father of forestry in Ohio. The present forestry program, which has created thousands of acres of state owned land, was developed under his personal direction. Several months ago he was named chairman of the new forestry research department at the Station when the Division of Forestry was transferred to the new Ohio Department of Natural Resources. Dr. Secrest was also a member of the Ohio Strip Mine Commission.

Dr. Secrest was born at Randolph, Kansas, and was a graduate of Kansas State College. He was awarded honorary doctor of science degrees by the Kansas State College and the College of Wooster. At the time of his death he was serving as a member of the board of trustees of the College of Wooster. He was a member of the Society of American Foresters, the Association of State Foresters, the Ohio Academy of Science, and the Ohio Forestry Association.

During his years in forestry in Ohio, Dr. Secrest was the author of several bulletins, presented numerous speeches on forestry before technical and other groups, and was the author of the statutes of the general code of Ohio relating to forestry.

He is survived by his wife and two daughters, Mrs. Mary Hoover Shibley, of Lakewood, and Edith, a student in Philadelphia. Burial was made in the Wooster, Ohio, cemetery.

—O. D. Diller.

JOHN A. TOOMEY

Dr. John A. Toomey died of cerebral hemorrhage in Cleveland City Hospital on New Year's Day, 1950. Born in Cleveland in 1889, his entire life was spent in his native city. He received from St. Ignatius College an A. B. degree in 1910, and a Master's degree in 1912. After acquiring an LL.B. degree from the Cleveland Law School in 1913, he decided to enter the profession of medicine, and graduated from the Western Reserve University Medical School in 1919. In 1949 he received an honorary LL.D. from John Carroll University.

At the time of his death he was Professor of Clinical Pediatrics and Contagious Diseases at Western Reserve University, having served his Alma Mater as chief of the City Hospital Contagious Diseases and Pediatrics Division for 29 years.

He was a member of many scientific and professional societies including the Ohio Academy of Science, the American Academy of Pediatrics (president 1949), the American Pediatrics Society, the Society of American Bacteriologists, the American Medical Association, the Ohio State Medical Society and the Cleveland Academy of Medicine.

He served his local medical society with great distinction as a member of the Board of Directors and as chairman of several scientific divisions of the Academy, including the Pediatric, Practice of Medicine and Experimental Medical sections. In 1947-48 he was president of the Western Reserve University Medical Alumni Association. Although Dr. Toomey gave generously of his time in service to these various organizations, his greatest achievements were attained as a scientist, a teacher, and a medical consultant.

As a scientist his interest was devoted to fundamental problems in the epidemiology, immunology, and therapy of contagious diseases. Among his 350 published papers, 143 were devoted to his researches and clinical observations on poliomyelitis and he was among America's greatest students of this disease. His basic observation that the chief portal of this specific virus into the body is by way of the gastrointestinal tract has been accepted as a proven fact. This work remains as his greatest scientific discovery. Likewise by developing many original methods of therapy in poliomyelitis he was able to diminish the mortality and to lessen complications in his patients to a degree not hitherto reached.

As a teacher he excelled because of his broad knowledge of contagious diseases. His clear, colorful and practical method of presenting his subject was a great inspiration to all of his students. His exceptional ability as an instructor gained him the highest respect of all of his professional colleagues.

As a consultant, as well as a scientist and teacher, he possessed three important attributes of character—he had a broad sympathy for the patient, he was a hard and diligent worker, and he was honest. This combination of virtues made him a tower of strength to the patient and his relatives as well as to the family physician.

Honoring his memory, the Unit for Contagious Diseases at the Cleveland City Hospital has been named the "Toomey Pavilion." An editorial in the Cleveland *Plain Dealer* of January 3, 1950, expresses the high regard that Dr. Toomey held in the hearts of Cleveland citizens: "If there was a fighter of heroic proportions against that enemy of mankind, contagious disease, that fighter was John A. Toomey. By his death this city has lost one of its greatest citizens, one of its greatest native sons, a man whose fame in the profession of medicine extended the world around."

The death of Dr. John A. Toomey is of immeasurable loss to his patients and to his dear friends and colleagues.—*Dr. John Tucker.*

MARVIN PITTMAN

Marvin Pittman, born April, 1919, at New Iberia, Louisiana, received the B. S. degree from Duke University, 1940, and the M.S. in Geography at the University of Chicago, 1946.

He served as bomber pilot and navigator during the war and was shot down over Germany. He was twice captured and twice escaped from German prison camps. He became part of the Yugoslav underground, and was picked up by the Russians near Vienna near the close of the war.

During the year 1948-49 Mr. Pittman was Assistant Professor of Geography at Miami University. He then joined the faculty of the University of the Philippines. During the Christmas holidays of 1949, Pittman and another Professor at this University went on a tramping trip into the Igorot County, Ifugao subprovince. On Christmas day, 95 km. north of Baguio, the two men were speared to death by a band of Ifugao headhunters. Pittman is survived by his wife and infant daughter, and by his parents at Statesboro, Georgia.

—*W. H. Shideler.*

LESLIE L. PONTIUS

In the death of Leslie L. Pontius, Ohio lost one of its outstanding field naturalists. He was born in Tarlton, Pickaway County, Ohio, where he spent his boyhood and received his education in the village school.

Mr. Pontius taught for several years in the rural schools of Pickaway County and later was engaged in the drug business in Columbus. In 1913 he entered the Postal Service in Cir-

cleville, Ohio, where he remained for more than thirty years and at the time of his retirement was Assistant Postmaster.

He had a general knowledge of, and enjoyed all forms of Natural History. Although having no specialized training in botany he had a vast knowledge of what grows in the fields and woods and on the hills of Ohio. He could recognize without a moment's hesitation many of the plants that grow in the state. Working with his farmer friend and field companion, Mr. Floyd Bartley of near Circleville, many new records have been added to the list of Ohio plants. Mr. Pontius is known throughout the state as one of its outstanding field botanists. Plants collected by him can be found in many Universities and Museums, including Smithsonian Institute at Washington, D. C., and New York Botanical Gardens with which he was a collaborator. His entire herbarium has been placed at Ohio University at Athens, Ohio.

Mr. Pontius was an active member of many societies, including the Ohio Academy of Science, Wheaton Club, Audubon Society, Wilson Ornithological Society and the local Garden Clubs. He was an active member and Trustee of the First Methodist Church in Circleville, and will long be remembered by his many friends for his good judgment and understanding of people.—*Floyd Bartley.*

JOHN PAUL VISSCHER

John Paul Visscher, professor of biology in Western Reserve University, a distinguished teacher and a leading authority on the general physiology and behavior of the lower organisms, died on February 11, 1950.

For more than twenty-five years Professor Visscher's life and work exerted a profound influence on the teaching of biology in the University and through his students in the city and northern Ohio. During this time he carried on an active interest in research on marine animals and contributed widely to the local associations interested in biological subjects.

Dr. Visscher was born in Holland, Michigan, September 19, 1895, and was graduated from Hope College, Holland, with the B.A. degree in 1917. He promptly enlisted in the Army, Chemical Warfare Service, and was discharged as a second Lieutenant in December, 1918. On leaving the Army, he continued his studies in biology at the John Hopkins University, completing work for the M.A. degree in June, 1920. After two years as instructor in zoology, Washington University, St. Louis, he returned to John Hopkins in 1922 as Bruce Fellow and received his Ph.D. degree in 1924. During the summer months of his training period, Dr. Visscher carried on research on barnacles at the Marine Biological Laboratory, Woods Hole, resulting in a series of publications on the physiology and life cycle of Cirripedia. In connection with this work he studied marine life at the biological stations of Naples, Italy; in the Laboratory of the Marine Biological Association of the British Empire, Plymouth; in the Marine Station of the Dry Tortugas; and in the Pearl Harbor Naval Station.

Appointment to the Biology Department at Western Reserve University in 1924 to work with Professor Herrick, introduced the next important phase of Dr. Visscher's work. The work under way in the department in the field of Ornithology received his full support and resulted in the Baldwin Bird Research Laboratory and contributed to the establishment of a strong active society for the study of bird life in the city of Cleveland.

Dr. Visscher's accomplishments, his quality of mind and character, gained for him wide recognition and many honors. He was elected a member of the American Society of Naturalists; American Society of Zoologists; Fellow of American Association for the Advancement of Science; Fellow, Ohio Academy of Science; Sigma Xi; and Phi Beta Kappa. He served as a trustee of the Cleveland Museum of Natural History and the Garden Center of Greater Cleveland. He served as President of the Cleveland Bird Club for two terms and as president of the Wild Flower Club of Cleveland.—*Franklin J. Bacon.*

REPORT OF COMMITTEE ON RESOLUTIONS

Be it Resolved, that the members of the Ohio Academy of Science express to President Harold L. Yochum of Capital University, and to the members of the local committee, their appreciation of the hospitality so freely extended and the fine facilities furnished, which have made our fifty-ninth annual meeting so successful and pleasant.

Be it Resolved, that the Ohio Academy of Science express to President Yochum and the faculty of Capital University, its felicitations on the one-hundredth anniversary of this notable and distinguished institution of learning.

Be it further Resolved, that the Ohio Academy of Science record its deep appreciation for the devoted services of Dr. Herbert Osborn who is retiring as Chairman of the Trustees Research Fund after many years of membership in that committee, and for his numerous contributions to our organization in general, and to the field of science in the world at large.

Respectfully submitted,

P. B. SEARS,
H. R. EGGLESTON,
W. C. BEAVER, *Chairman.*