PROCEEDINGS OF THE ACADEMY

1951

The 81st Annual Meeting of the Academy was held April 13 and 14, 1951 at Milwaukee–Downer College with headquarters at Pillsbury Hall in Sabin Hall. Approximately 120 members and guests were registered. The following program was presented.

ACADEMY SECTION

April 13, 1951

The meeting was called to order by President William C. McKern followed by an address of welcome by Dr. Lucia R. Briggs, President of the Milwaukee–Downer College. Papers were presented as follows: Howard K. Suzuki, Marquette University, *Geographic variations in the wood frog (Rana sylvatica) in North America;* Albert Fuller, Milwaukee Public Museum, *Natural areas in Wisconsin;* Raymond H. Reis and Frank DiPierro, Marquette University, *Spontaneous change of form of the green hydra, Chlorohydra viridissima;* Floyd E. Morbeck and John W. Saunders, Jr., Marquette University, *The amino acid, tyrosine, as chromogen in the synthesis of melanin pigments in the skin of the fowl;* Dorothy R. Jutton and Helen T. Parsons, University of Wisconsin, *Vitamin B_{12} activity in feces of normal human subjects;* Mary E. Pankou (introduced by James C. Perry), Marquette University, *The study of the possible recovery of the testis and related organs of the golden hamster from damage produced by estrogen;* Irene M. Serafin (introduced by James C. Perry), Marquette University, *Observations on the possible recovery of the testis and related endocrine glands of the vasectomized male golden hamster following prolonged estrinization;* John P. O'Brien and Maureen J. Tobin, Marquette University, *Some factors influencing tissue responses to X-radiation;* Quentin LaHam and John P. O'Brien, Marquette University, *Radiosensitivity of larval urodele tissues in relation to metabolic rate obtaining at the time of exposure;* James E. Hackett (introduced by E. F. Bean), University of Wisconsin, *The birth and development of ground-water hydrology—a historical summary;* Hugo W. Rohde, Oconomowoc, *A history of Milwaukee breweries;* H. A. Schuette, University of Wisconsin, *Butler's "The Feminine Monarchie";* Robert H. Irrmann, Beloit College, *Work-diaries of Ohio farm hands, 1844–1845;* Berenice Cooper, Wisconsin State College, Superior, *The Abbé Prévost and the modern reader;* Donald B. King, Beloit College, *The appeal to religion in Greek rhetoric.*

ACADEMY SECTION

April 14, 1951

Katherine G. Nelson, Milwaukee–Downer College, *One hundred years of earth science at Milwaukee–Downer College;* Cyril C. O'Brien, Marquette University, *Recent trends in educational psychology with some implications for teacher training;* Nick J. Topitzes, Marquette University, *A program for the selection of trainees in physical medicine in Wisconsin;* Pauline Tepe and Raymond H. Reis, Marquette University, *A comparative study of the renal vascular patterns and their relation to the vena cava posterior*

and the dorsal aorta; Clifford J. Dennis, University of Wisconsin, *The Membracidae of Wisconsin;* John P. Eastwood, University of Wisconsin, *The biology and taxonomy of Wisconsin blowflies.*

Junior Academy Section

April 14, 1951

Audrey Hardiman, Aquinas Science Club, Aquinas High School, La Crosse and John Bloxdorf, Seminar Club, Mary D. Bradford High School, Kenosha, Co-presidents of the Wisconsin Junior Academy of Science, presiding. Thomas Koerber, Science & Camera Club, Messmer High School, Milwaukee, *Experiments in entomology and hibernation of small animals;* Larry Horwitz, Waukesha High School, Waukesha, *The electromagnetic balance;* Marjorie Call, Nature Club, Appleton Senior High School, Appleton, *Analyses of milk;* Lee T. Rozelle, Central High School Science Club, La Crosse, *Eggs-ray;* Patrick McKeough, Science Club, Wausau Senior High School, *Electrochemistry;* Ted Olson, Chemistry Club, Lincoln High School, Wisconsin Rapids, *Induced radioactivity;* Audrey Hardiman, Aquinas Science Club, Aquinas High School, La Crosse, *The effect of two hormones from the adrenal gland on rats;* Willard Bruss, Biology Club, Washington High School, New London, *Care of hamsters;* Don Schlafke, Nature Club, Appleton Senior High School, Appleton, *Experiments with Drosophila;* Alice Engelhard, Aquinas Science Club, Aquinas High School, La Crosse, *The familiar ferment-yeast;* Edward Oakes, Chemistry Club, Lincoln High School, Wisconsin Rapids, *Chromatography;* Myron A. Schroeder, Science & Camera Club, Messmer High School, Milwaukee, *Extraction of caffeine.*

Annual Academy Lecture

The annual Academy dinner was held on April 13, 1951 at Kimberly Union. President William C. McKern of the Milwaukee Public Museum gave the presidential address on *Prehistoric Pioneers in Wisconsin.*

Academy Business Meeting

The annual business meeting was held in Sabin Hall with President W. C. McKern presiding.

The following members were elected to Life Membership for long and meritorious service to the Academy: W. H. Barber, Ripon College; B. O. Dodge, New York City; Michael F. Guyer, University of Wisconsin; and Warren J. Mead, Belmont, Massachusetts.

A resolution was adopted by the unanimous vote of the Academy as follows:

Whereas: The Wisconsin Academy of Sciences, Arts and Letters has suffered a great loss in the deaths of five outstanding members during the year 1950–51, and

Whereas: the Academy wishes to recognize its indebtedness for their inspiring interest and leadership,

Be It Resolved: that the Wisconsin Academy of Sciences, Arts and Letters herewith express its lasting appreciation for the long, intelligent and faithful service given throughout their membership by Professor Emeritus Edward E. Bennett, President Emeritus Edward A. Birge, Professor Emeritus Philo M. Buck, Jr., Dean Emeritus Frederick E. Turneaure

and its long-time and devoted Secretary Professor Banner Bill Morgan, and, further,

Be It Resolved: that a copy of this Resolution be inscribed in the official minutes of the organization.

H. A. SCHUETTE
CARL WELTY

A committee on nominations composed of O. L. Kowalke, E. S. McDonough, L. E. Noland, Chmn., R. K. Richardson, and H. A. Schuette presented the following slate of officers which were unanimously elected for the next Academy year:

President: E. L. Bolender, Wisconsin State College, Superior
Vice-President in Science: Alfred M. Fuller, Milwaukee Public Museum
Vice-President in Arts: Roger C. Kirchhoff, State Architect
Vice-President in Letters: Lester W. J. Seifert, University of Wisconsin
Secretary-Treasurer: Robert J. Dicke, University of Wisconsin
Librarian: H. O. Teisberg, University of Wisconsin
Publications Committee: Robert Irrmann, Beloit College

WISCONSIN ACADEMY OF SCIENCES, ARTS AND LETTERS
ENDOWMENTS AND ASSETS

April 1, 1951

1.	U. S. Treasury Coupon Bond 1692B	$1,000	
2.	U. S. Treasury Coupon Bond 12894D	500	
3.	U. S. Savings Bond Registered Series G–M1696059G	1,000	
4.	U. S. Savings Bond Registered Series G–C1563347G	100	
5.	U. S. Savings Bond Registered Series G–C1563348G	100	
6.	U. S. Savings Bond Series F–D494206F	500	
7.	U. S. Savings Bond Series F–M989457F	1,000	
8.	U. S. Savings Bond Series G–C3389339G	100	
9.	U. S. Savings Bond Series G–C3457898G	100	
10.	U. S. Savings Bond Series G–C3512841G	100	
11.	U. S. Savings Bond Series G–C3560656G	100	
12.	U. S. Savings Bond Series G–C3564110G	100	
13.	U. S. Savings Bond Series G–C4154481G	100	
14.	U. S. Savings Bond Series G–C5044011G	100	
15.	U. S. Savings Bond Series G–C5044012G	100	
16.	U. S. Savings Bond Series G–C5074307G	100	
17.	U. S. Savings Bond Series G–C5074308G	100	
18.	U. S. Savings Bond Series G–C5463975G	100	
	Total Amount of Endowment		$5,300
19.	U. S. Savings Bond Series G–C2386504G	$ 100	
20.	U. S. Savings Bond Series G–C2386505G	100	
21.	U. S. Savings Bond Series G–C2386506G	100	
22.	U. S. Savings Bond Series G–C2386507G	100	
	Current Assets Invested in U. S. Bonds		400
23.	Savings Account No. 3262 (4/1/51)		270.11
24.	Savings Account No. 498 (Vol. 39 sales)		51.00
	Grand Total		$6,021.11

AARON J. IHDE
Secretary-Treasurer

The contents of the safe deposit box and the savings account were found in order as reported above for the date April 1, 1951.

AUDITING COMMITTEE
E. F. BEAN
HAROLD R. WOLFE

WISCONSIN ACADEMY OF SCIENCES, ARTS AND LETTERS TREASURER'S REPORT

April 1, 1951

RECEIPTS

Carried forward in Treasury March 31, 1950		$1,144.64
Dues received from April 1, 1950 to March 31, 1951		849.00
Sale of reprints of Volume 40, Part 1		337.00
Sale of publications		167.65
Interest on endowment and other investments		112.04
Grant-in-aid for research from A.A.A.S.		108.00
Receipts from Junior Academy		54.46
Express collected		3.04
Donation (A. L. Schlaeger)		2.00
State of Wisconsin (for publication of *Transactions*)		2,681.38
Total Receipts		$5,459.21

DISBURSEMENTS

Junior Academy expenses		$ 69.69
A.A.A.S. grant-in-aid to C. C. O'Brien		108.00
Cost of reprints from Volume 40, Part 1		337.00
Transfer to savings account No. 3262		65.79
Transfer to savings account No. 498 (Vol. 39 income)		6.00
Operating expenses		
Envelopes, labels, etc.		49.75
Annual meeting expenses		148.96
Postage and incidentals		89.66
Safety deposit box rental		4.80
Secretarial allowance—B. B. Morgan		200.00
Secretarial allowance—A. J. Ihde		100.00
Publication expenses		
Printing and binding, 1,500 copies Vol. 40, Part 1	$2,348.50	
Engravings for Vol. 40, Part 1	150.36	
Engravings for Vol. 40, Part 2	182.52	
		2,681.38
Total Disbursements		$3,861.03
Balance, April 1, 1951		1,598.18

AARON J. IHDE
Secretary-Treasurer

The Auditing Committee has examined the accounts of the Treasurer and has found them in order.

AUDITING COMMITTEE
E. F. BEAN
HAROLD R. WOLFE

PROCEEDINGS OF THE ACADEMY

1952

The 82nd Annual Meeting of the Academy was held April 25 and 26, 1952 at Ripon College with headquarters at Ingram Hall. Registration was 121 members and guests representing 15 Wisconsin communities. The following program was presented.

ACADEMY SECTION

April 25, 1952

The meeting was called to order by President E. L. Bolender followed by an address of welcome by Dr. Clark G. Kuebler, President of Ripon College. Papers were presented as follows: Ernest F. Bean, Wisconsin Geological and Natural History Survey, *Oil exploration in Wisconsin;* Merritt Y. Hughes, University of Wisconsin, *Edmund Spenser, 1552–1952;* Robert J. McGray and E. S. McDonough, Marquette University, *Investigations into the fungistatic activity of an alcohol-soluble extractive of Catalpa heartwood;* Berenice Cooper, Wisconsin State College, Superior, *The Abbé Prévost and the Jesuits;* F. R. Whitesell, University of Wisconsin, *Corista, or the fireproof bird;* Emil P. Kruschke, Milwaukee Public Museum, *Report on Wisconsin Crataegus—collecting and preparing of complete herbarium specimens;* Raymond F. Shumard, University of Wisconsin, *Some effects of mineral supplement on sheep infected with stomach worms;* Charles L. Fluke, University of Wisconsin, *The Syrphidae of the Great Lakes Region;* J. A. Belli, J. P. O'Brien and J. W. Saunders, Jr., Marquette University, *Exposure to X-radiation of localized areas of mammalian skin conditioned to different levels of metabolic activity;* Walter Gojmerac and J. P. O'Brien, Marquette University, *Preliminary observations on the influence of temperature on the response of Anuran larvae to X-radiation.*

ACADEMY SECTION

April 26, 1952

Raymond H. Reis and Frank DiPierro, Marquette University, *Spontaneous change of form of the green hydra, Chlorohydra viridissima, under controlled conditions of temperature, light and pH;* R. S. Pierce, University of Wisconsin, *Determination of electrometric properties of ground water by a field method;* Juanita S. Sorenson (introduced by C. L. Fluke), University of Wisconsin, *The Stratiomyidae of Wisconsin;* John J. Enck, University of Wisconsin, *Memory and Desire: Tennessee Williams' plays;* Lester W. J. Seifert, University of Wisconsin, *The R-sounds of the Koelsch dialect spoken in Dane County, Wisconsin;* Alvin Whitley, University of Wisconsin, (read by John J. Enck), *Arthur Miller: an attempt at modern tragedy;* C. B. Davey, University of Wisconsin, *Decomposition of hard maple sawdust by treatment of anhydrous ammonia and inoculation with Coprinus ephemerus.* Read by title: George H. Conant, Ripon, *The evolution of Triarch products;* K. L. Hatch, Madison, *Ancient Babylon, meeting place of science and history.*

Junior Academy Section

April 26, 1952

Alice Engelhard, Aquinas Science Club, La Crosse, and Don Schlafke, Appleton High School Nature Club, Co-presidents of the Wisconsin Junior Academy of Science, presiding. Ted Olson, Chemistry Club, Lincoln High School, Wisconsin Rapids, *A working model of a cyclotron;* Dick Schulze, Nature Club, Appleton High School, *Television interference from amateur radio stations;* Don Schlafke, Nature Club, Appleton High School, *Electrets;* Philip Yunker, Science Club, Aquinas High School, La Crosse, *The use of instruments in procuring and graphing weather data;* John Chapel, Seminar Club, Mary D. Bradford High School, Kenosha, *Meteorology;* Jerome I. Hanley, Science Club, Marquette University High School, Milwaukee, *Study of the magnetic properties of certain non-ferrous alloys;* Ted Guzie, Science Club, Marquette University High School, Milwaukee, *Problems of the one shot color camera;* Arthur Cook, Science Club, Aquinas High School, La Crosse, *Chromotography;* Marlene Olson, Chemistry Club, Wausau Senior High School, *Cosmetics and chemistry;* Marjorie Call, Nature Club, Appleton High School, *Hom-eze cheese making;* Mark Weigel, Science and Camera Club, Columbus High School, Marshfield, *Colchicine;* Audrey Hardiman, Science Club, Aquinas High School, La Crosse, *Experiments on rats with closely related steroids.*

Annual Academy Lecture

The annual Academy dinner was held on April 25, 1952 at the Frank J. Harwood Student Building on the Ripon College campus. President E. L. Bolender of Wisconsin State College, Superior, gave the presidential address on *Some Problems of Science Teaching and Science Education in This Modern Age.*

Academy Business Meeting

The annual business meeting was held in Ingram Hall with President E. L. Bolender presiding.

Resolutions presented were adopted by the unanimous vote of the Academy as follows:

Whereas: The Wisconsin Academy of Sciences, Arts and Letters has lost in death four of its distinguished members during the year 1951–52, and

Whereas: the Academy wishes to recognize its indebtedness for their inspiration, devotion and leadership

Be It Resolved: that the Wisconsin Academy of Sciences, Arts and Letters herewith expresses its lasting appreciation given throughout the years by Professor William H. Kiekhofer, Doctor Regina S. Riker, Professor Walter Rogers, Reverend Claude P. Zens and, further,

Be It Resolved: that a copy of this Resolution be inscribed in the official minutes of the organization, and

Be It Resolved Further: that the Academy express its appreciation to the trustees of Ripon College, its President, Dr. Clarke Kuebler, and his faculty for their hospitality, interest, and cooperation in making its annual meeting of 1952 a success.

C. A. Herrick
Ruth Walker
April 25, 1952

A committee on nominations composed of G. H. Conant, B. Cooper, A. Hornigold, O. L. Kowalke, Chmn., and A. L. Throne presented the following slate of officers which were unanimously elected for the Academy year 1952–53:

President: Katherine G. Nelson, Milwaukee–Downer College
Vice-President in Science: W. H. Barber, Ripon College
Vice-President in Arts: Ella M. Martin, Wisconsin State College, Platteville
Vice-President in Letters: Berenice Cooper, Wisconsin State College, Superior
Secretary-Treasurer: Robert J. Dicke, University of Wisconsin
Librarian: H. O. Teisberg, University of Wisconsin
Publications Committee: A. W. Schorger, University of Wisconsin

The following amendment was made to Section 1 of the Academy By-Laws reading as follows: "The annual dues shall be three dollars for each active member, to be charged to his account on the first day of January of each year. *Membership shall be available to a husband or wife of active members for an annual dues of one dollar, providing that only one copy of the Transactions shall be received by the family group.*"

WISCONSIN ACADEMY OF SCIENCES, ARTS AND LETTERS ENDOWMENTS AND ASSETS

April 1, 1952

1.	U. S. Treasury Coupon Bond 1692B	$1,000	
2.	U. S. Treasury Coupon Bond 12894D	500	
3.	U. S. Savings Bond Registered Series G–M1696059G	1,000	
4.	U. S. Savings Bond Registered Series G–C1563347G	100	
5.	U. S. Savings Bond Registered Series G–C1563348G	100	
6.	U. S. Savings Bond Series F–D494206F	500	
7.	U. S. Savings Bond Series F–M989457F	1,000	
8.	U. S. Savings Bond Series G–C3389339G	100	
9.	U. S. Savings Bond Series G–C3457898G	100	
10.	U. S. Savings Bond Series G–C3512841G	100	
11.	U. S. Savings Bond Series G–C3560656G	100	
12.	U. S. Savings Bond Series G–C3564110G	100	
13.	U. S. Savings Bond Series G–C4154481G	100	
14.	U. S. Savings Bond Series G–C5044011G	100	
15.	U. S. Savings Bond Series G–C5044012G	100	
16.	U. S. Savings Bond Series G–C5074307G	100	
17.	U. S. Savings Bond Series G–C5074308G	100	
18.	U. S. Savings Bond Series G–C5463975G	100	
	Total Amount of Endowment		$5,300
19.	U. S. Savings Bond Series G–C2386504G	$ 100	
20.	U. S. Savings Bond Series G–C2386505G	100	
21.	U. S. Savings Bond Series G–C2386506G	100	
22.	U. S. Savings Bond Series G–C2386507G	100	
	Current Assets Invested in U. S. Bonds		400
23.	Savings Account No. 3262 (4/1/52)		361.54
	Grand Total		$6,061.54

ROBERT J. DICKE
Secretary-Treasurer

The contents of the safe deposit box and the savings account were found in order as reported above for the date April 1, 1952.

AUDITING COMMITTEE
L. E. NOLAND
H. A. SCHUETTE

WISCONSIN ACADEMY OF SCIENCES, ARTS AND LETTERS
TREASURER'S REPORT

April 1, 1952

RECEIPTS

Carried forward in Treasury March 31, 1951	$1,598.18	
Dues received from April 1, 1951 to March 31, 1952	987.00	
Sale of reprints of Volume 40, Pt. 2	337.50	
Sale of Academy publications	315.10	
Interest on endowment and other investments	91.43	
Grant-in-aid for research from A.A.A.S.	94.00	
Receipts from Junior Academy	44.25	
State of Wisconsin (for publication of Transactions)	2,318.62	
Donations:		
Anonymous to Junior Academy prizes	25.00	
F. Zirrer to publication of Transactions	5.00	
Sale of Volume 39 retained in Savings Account No. 498	51.00	
Total Receipts		$5,867.08

DISBURSEMENTS

Cost of reprints of Volume 40, Pts. 2	$ 362.00	
A.A.A.S. Grant-in-aid to L. W. Seifert	94.00	
Transfer to Savings Account 3262	91.43	
Operating expenses:		
Envelopes, stationery, etc.	55.15	
Annual meeting, programs, etc.	101.18	
Postage and incidentals	55.63	
Safety deposit box	4.80	
Junior Academy expenses	99.93	
Secretarial allowance to Robert J. Dicke	300.00	
Publication expenses:		
Printing and binding, 1,500 copies Vol. 40, Pt. 2	2,514.25	
Engraving costs	13.65	
Milwaukee Public Museum (closing out Savings Account No. 498 for sale of Volume 39)	51.00	
Total Disbursements		$3,743.02
Balance on hand April 1, 1952		2,124.06
		$5,867.08

ROBERT J. DICKE
Secretary-Treasurer

The Auditing Committee has examined the accounts of the Treasurer and has found them in order.

AUDITING COMMITTEE
L. E. NOLAND
H. A. SCHUETTE