

# Proceedings of the Iowa Academy of Science

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Article 5

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1942

## Reports: Executive Committee; Secretary; Treasurer; Staff Reports; Committee Reports

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## REPORT OF THE TREASURER

## RECEIPTS 1941-1942

Cash on hand March 1, 1941.....	\$ 227.90
Dues .....	614.30
Sales .....	23.83
A. A. A. Grant .....	125.00
Interest .....	29.49
Dividend, Union Story Trust and Savings Bank ..	23.09
	<hr/>
	\$ 1043.61

## DISBURSEMENTS 1941-42

Postage .....	\$ 73.41
Clerical help .....	13.50
Printing, addressograph, etc. ....	156.07
Honoraria .....	200.00
Editor's Office, Vols. 47 and 48 .....	31.19
Junior Academy, including honorarium for Permanent Secretary .....	100.00
Research grants	
A. A. A. S. ....	125.00
Iowa Academy .....	50.00
A. A. A. S. meeting .....	35.00
	<hr/>
	\$ 784.17
To balance .....	259.44
	<hr/>
	\$ 1043.61

## ENDOWMENT FUND

Balance Mch. 1, 1941 .....	\$ 567.47
Fees from fellows .....	14.00
1 life membership .....	20.00
Interest on savings account .....	12.21
	<hr/>
Cash on hand .....	\$ 613.68

## HOLDINGS

Federal Farm Mortgage Bond, 1949 .....	\$ 500.00
Federal Farm Mortgage Bond, 1964 .....	500.00
U. S. Treasury Bonds 3¼%, 1946 .....	300.00
U. S. Savings Bonds, 1949 .....	675.00
Midland Investment Corp. Pfd. Stock (2 shares) ..	200.00
Midland Theatre First Mtg. Bond 1953 .....	300.00
Account, Union Story Tr. & Sav. Bank .....	613.68
	<hr/>
Total .....	\$ 3088.68

Respectfully submitted,  
E. R. BECKER, *Treasurer*

Your committee appointed to audit the books of the Iowa Academy of Science wish to make the following report. We have received the books from the Secretary and Treasurer, E. R. Becker, and carefully checked the assets and liabilities of the Academy and find that the records are correct.

JOSEPH C. GILMAN  
E. W. LINDSTROM  
F. E. BROWN  
(March 1, 1942)

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#### REPORT OF THE FINANCE COMMITTEE

The report of the Academy Treasurer on "Receipts" and "Disbursements" has been examined by the Finance Committee and is approved.

Our secretary-treasurer, E. R. Becker, requested an audit of the books of the Iowa Academy of Science including a check of the assets and liabilities of the Academy. This committee, appointed by Academy President Nelson, consisted of J. C. Gilman, E. W. Lindstrom, and F. E. Brown. They found the records correct.

Members of the Committee

U. A. HAUBER  
E. W. LINDSTROM  
H. S. NOLLEN  
J. B. CULBERTSON, *Chairman*.  
(April 18, 1942)

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#### REPORT OF THE MEMBERSHIP COMMITTEE

The membership committee submits application cards for 62 new members and recommends their election to the Academy. These applications are divided as follows:

1 Life Fellow  
13 Fellows  
48 Associates

R. W. GETCHEL  
D. L. HOLL  
L. D. WELD  
PAUL E. KAMBLY, *Chairman*  
(April 18, 1942)

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#### LIFE FELLOW

Wilson, L. R., Geology and Botany, Coe College, Cedar Rapids.

#### NEW FELLOWS

Anderson, R. B., Chemistry, State University of Iowa, Iowa City, Iowa  
Berg, William D., Mathematics, Iowa City, Iowa.  
Boyer, Dr. E. H., Pathology, St. Vincent's Hospital, Sioux City.

Crawford, L. C., Hydraulic Engin. and Conserv., 508 HL, Iowa City.  
 Ernsdorff, L. E. Mathematics, Loras College, Dubuque.  
 Geisler, George, Chemistry, Trinity College, Sioux City.  
 Galligan, W. E., Hydraulics, Engineering Hall, State College, Ames.  
 Hodgson, James B., Philosophy, Coe College, Cedar Rapids, Iowa.  
 Houtchens, H. Max, Psychology, Child Guidance Center, Des Moines.  
 Luck, Robena E., Botany (Plant Pathology), 942 Iowa Ave., Iowa City.  
 Nye, Warren E., Biology, Loras College, Dubuque.  
 Routh, J. I., Biochemistry, State University, Iowa City.  
 Stork, F. J., Chemistry, Loras College, Dubuque.

## NEW ASSOCIATES

Adams, Michael, Psychology, State University, Iowa City.  
 Albert, W. E., Fisheries Supervisor, Lansing.  
 Anderson, Stanley, Psychology, Morningside College, Sioux City, Iowa.  
 Baker, H. T., Chemistry, 511 So. Madison, Iowa City.  
 Beebe, J. M., Bacteriology, State College, Ames.  
 Boardman, Donald C., Geology, State University, Iowa City.  
 Boardman, W. W., Chemistry, State University, Iowa City.  
 Bragonier, W. H., Botany, State College, Ames.  
 Brown, George W., Metallurgical Chem., State University, Iowa City.  
 Crabb, Dayle N., 206 Steffens Hall, University of Dubuque, Dubuque.  
 Craft, James H., Plant Physiology, State University, Iowa City.  
 Cuthbert, Nicholas L., 410 W. Monroe, Mt. Pleasant.  
 Davis, Arthur W., Engin. Mech., Theor. and App. Mech. State College,  
 Ames, Iowa.  
 De Buchanne, George D., Geology, 18 No. Dodge, Iowa City.  
 De Garmo, J. L., Psychology, 1301 So. Glass, Sioux City.  
 Edmondson, Mary Louise, Psychology, 2118 Sunset Drive, Ames.  
 Floyd, Don E., Organic Chemistry, Iowa City, Iowa.  
 Gilman, Ruth, Botany, Grinnell College, Grinnell.  
 Gray, Warren, Geology, 1125 E. Burlington, Iowa City.  
 Goodman, John, Botany and Zoology, Parsons College, Fairfield.  
 Grumbein, Mary Louise, Mycol. Bot. Dept., State University, Iowa City.  
 Hannah, Wayne, Chemistry, State College, Ames.  
 Hemmings, William A., Hillsboro.  
 Hertel, Elmer W., Biology, Wartburg College, Waverly, Iowa.  
 Irwin, Orvis C., Iowa Child Welfare Research Station, Iowa City.  
 Johnson, I. J., Plant Breeding, State College, Ames.  
 Jenness, J. R., Physics, Parsons College, Fairfield.  
 Lentz, Paul L., Botany, State University, Iowa City.  
 Levin, Arthur, Parasitology, 418 S. Van Buren, Iowa City.  
 Lovell, Geo. D., Psychology, Psychology Dept., Grinnell College, Grinnell.  
 Matthews, John M., Geology, 724 N. Dubuque, Iowa City.  
 McComb, A. L., Forestry and Botany, 420 Briarwood, Ames.  
 McIlrath, Wayne, Botany, State Teachers College, Cedar Falls.  
 Morehouse, Neal F., Parasitology, 205 Fourth Ave., Charles City.  
 Nettleton, Guy, Jr., Biology, Morningside College, Sioux City.  
 Norton, R. A., Agric. Engin., 915 Gaskill Drive, Ames.  
 Parizek, Eldon J., Geology, 917 Fairchild St., Iowa City  
 Payton, Marcus, Geology, 221 N. Linn, Iowa City.

Rooks, Roland, Hyg. and Prev. Medicine, State Univ. Hosp. Iowa City.  
Schwob, F. T., State Director of Conservation, Des Moines.  
Show, Franklin J., Psychology, 217 S. Gilbert, Iowa City.  
Shupe, Leonard, Psychology, High School, Audubon.  
Spence, Kenneth W., Psychology, State University, Iowa City.  
Stevens, Norman, Physics, 308 E. Church, Iowa City.  
Sybil, Edward W., Botany, State University, Iowa City.  
Thompson, Bonnie J., Botany, Crawfordsville.  
Thompson, John David, Zoology, State University, Iowa City.  
Tudor, W. J., Psychology, State College, Ames.  
Winterstein, Merryn G., Chemistry, 829 No. Fifth, Burlington.  
Yeager, Bob, Zoology (Pre-Med.), 3800 Garretson, Sioux City.  
Yeager, Walter, Zoology, (Pre-Med.), 3800 Garretson, Sioux City.

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#### REPORT OF THE EDITOR

The Proceedings of the Iowa Academy of Science for 1941 are published in volume 48. The publication contains 496 pages of which the first 47 are devoted to the list of members, reports of officers, committees, and the In Memoriam section. The portion containing papers and abstracts of research by 147 Academy members totals 439 pages. The index is 10 pages in length.

The editor wishes to express his appreciation to the chairmen of sections and the authors who assisted greatly in making possible the prompt publication of the Proceedings. He also wishes to express his appreciation to Mrs. Florence W. Nichols, the former editor, and to Dr. J. C. Gilman, the former Secretary-Treasurer, for invaluable suggestions in the preparation of the present volume. The assistance of the State Printer, Mr. L. M. Shaw, and many others is gratefully acknowledged.

Respectfully submitted,

L. R. WILSON, *Editor*

April 18, 1942.

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#### THE REPORT OF THE LIBRARIAN, IOWA STATE COLLEGE LIBRARY, TO THE IOWA ACADEMY OF SCIENCE FOR THE YEAR ENDING ON FEBRUARY 28, 1942

During the year 1941-42, the distribution of the Proceedings of the Iowa Academy of Science to institutions in foreign countries was greatly curtailed because of the war. Since December 7, 1941, the Library has sent out only the volumes designated for individuals and institutions in this hemisphere and to certain institutions in Great Britain which expressly requested that their copies be forwarded. The volumes not forwarded will be held by the Library for the duration. Similarly, many foreign institutions are now holding publications which are normally sent us on exchange for the Proceedings. The figures which follow, therefore, do not represent the series actually received, but the number of publications due us on exchange.

NUMBER OF INSTITUTIONS ON MAILING LIST:

Domestic .....	124
Foreign .....	60
	184

NUMBER OF PUBLICATIONS NORMALLY RECEIVED FROM THESE INSTITUTIONS:

Domestic .....	367
Foreign .....	230
	597

NUMBER OF PUBLICATIONS RECEIVED IN DIRECT EXCHANGE:

Domestic .....	62	from 44	institutions
Foreign .....	23	" 21	"
	85	65	

NUMBER OF PUBLICATIONS NORMALLY RECEIVED IN EXCHANGE FOR IOWA ACADEMY OF SCIENCE PROCEEDINGS PLUS PUBLICATIONS OF IOWA STATE COLLEGE:

Domestic .....	305	from 52	institutions
Foreign .....	145	" 37	"
	450	89	

Note: *These publications are normally received for a combination of the Iowa Academy of Science Proceedings with any of the following: Iowa State College Journal of Science, Iowa Agricultural Experiment Station publications, Iowa Engineering Experiment Station Bulletin.*

INSTITUTIONS RECEIVING THE PROCEEDINGS AS GIFTS:

6 U. S. Government Agencies
22 Iowa Libraries
2 Foreign Institutions (For abstracting)
30

DISTRIBUTION OF IOWA ACADEMY OF SCIENCE PROCEEDINGS:

Number of copies

	vol. 47	vol. 48
Membership .....	675	669
Exchange .....	189	190
Subscription .....	13	9

Respectfully submitted,  
C. H. BROWN, *Librarian*

REPORT OF THE COMMITTEE ON BIOLOGICAL SURVEY

TO THE IOWA ACADEMY OF SCIENCE:

The Committee on Biological Survey has circulated one letter among its members, containing a report of a project carried on by a similar committee of the Missouri Academy. We have taken no action during the year. It is recommended that a new committee be appointed, based on a plan to cooperate with State and local organizations interested in wildlife and conservation.

Respectfully,

T. C. STEPHENS

R. B. WYLIE

H. E. JAKUES

H. S. CONARD, *Chairman*

April 18, 1942

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REPORT OF THE CONSERVATION COMMITTEE  
OF THE IOWA ACADEMY OF SCIENCE

The chief accomplishments of the past year are the reorganization of the committee, the division of interests and duties and the making of plans for the coming year. It is the opinion of the committee that now, as at no time since the early years following the organization of the conservation committee, there is an opportunity for the Academy to make a lasting contribution to the conservation program of the state.

In contrast to a lack of knowledge and appreciation of conservation in the early days and the absence of a conservation program, there is now a somewhat general understanding and appreciation of the principles of conservation and a well developed program administered by the Iowa Conservation Commission. In addition to this program, the Soil Conservation Service of the U. S. Department of Agriculture has been active in the state in the development of demonstration projects and in cooperative S. C. S. camp work on privately owned farms. The formation of conservation districts throughout the state has at last placed the responsibility for the action program in soil and water conservation in the hands of the farmer. The rise of county and city conservation organizations in the last few years is evidence of the spread of the conservation spirit among dwellers in cities and towns. In spite of all of the conservation work done in the state, however, it can readily be observed that there is much remaining to be done.

The selection of new members of the committee and the division of duties were made on the basis of work to be done. The assignments are:

1. General wildlife interest throughout the state and preserves and parks. Carter and Doty.
2. Game management. Hendrickson.
3. Fish management. Speaker.
4. Archeology. Keyes.

5. Water supply. Galligan.
6. Forests. McDonald.
7. Soil and water conservation. Dodge and Aikman.

In order to clarify the responsibilities of the Academy and the Conservation Committee to the conservation program in the state, the following points may be listed:

1. Responsibility of the Conservation Committee to the Iowa Academy of Science:
  - (1) Organization and presentation of information on the activities in the several fields of conservation work in Iowa. Records, reports and programs.
  - (2) Recommendations to the Academy relative to opportunities for service to conservation agencies and fields.
  - (3) The formulation of a constructive, coordinated conservation policy and program to present to the Academy for its consideration.
2. Recommended service of the Iowa Academy to conservation in Iowa:
  - (1) A fostering interest in all worthwhile conservation enterprises.
  - (2) The contribution of individual members, specialists in conservation or in supporting fields, to the general conservation program in the state.
  - (3) Establish a constructive coordinated conservation policy and program and follow them.

Respectfully submitted,

CHARLES CARTER

A. F. DODGE

H. S. DOTY

W. E. GALLIGAN

G. O. HENDRICKSON

C. R. KEYES

G. B. McDONALD

EVERETT SPEAKER

J. M. AIKMAN, *Chairman*

April 18, 1942

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#### REPORT OF THE HIGH SCHOOL RELATIONS COMMITTEE

1942

The Junior Academy has had a successful year. The schools that participate are quite enthusiastic; however, there is need for extending the work into a larger number of high schools.

The American Institute of New York City with whom we were affiliated has transferred its sponsorship of Science Clubs to the Science Clubs of America, which is backed by Science Service. The plans for our relationship with this organization have not yet been worked out. In fact, the change has caused some confusion in our relationship to the science clubs in the state. We are hoping that the details of this relationship can be worked out this year to stimulate more interest in club work in the state.



The annual convention was held at the Mt. Pleasant High School. The attendance was 120. We wish to express our appreciation to the faculty and students of the local high school for their splendid hospitality and cooperation.

While the projects exhibited this year were not so extensive, the quality was high. The awards made are as follows:

*Biological Sciences*

Superior—Wilson High School, Cedar Rapids  
Excellent—Iowa City High School  
Excellent—Marion High School

*Physical Sciences*

Superior—Iowa City High School  
Excellent—Marion High School  
Excellent—Cedar Falls High School

*General Science*

Excellent—Amos Hiatt Junior High School, Des Moines

*Essay*

Superior—Helen Madsen—"Gases in Warfare"—Cedar Falls High School  
Superior—Marjorie Mach—"Helium"—Cedar Falls High School  
Superior—Gordon Valentine—"Friction and Lubrication"—Cedar Falls High School  
Excellent—Esther Etzel—"Spiders"—Marion High School  
Excellent—Cecil Johnson—East High School, Sioux City

The officers elected by the Junior Academy for the year 1942-43 are:

President—Thelma Fleming—Cedar Falls High School  
Vice President—John Dawson—East High School, Des Moines  
Secretary—Bill Kempshall—Marion High School  
Treasurer—James Gaffney—Cedar Falls High School

The Committee asks the Iowa Academy to confirm the appointment of the following officers for next year:

Senior Councilor—Arthur Haupt—Marion High School  
Junior Councilor—Clifford Johnson—Dubuque Senior High School  
Permanent Secretary—D. C. Stroud—Amos Hiatt Junior High School, Des Moines

We wish especially to commend Mr. Charles Trachsell of Iowa City High School and Mr. Arthur Haupt of Marion High School for their devoted services as councilors during the year.

Respectfully submitted,

High School Relations Committee

F. E. BROWN  
PAUL RISLEY  
D. C. STROUD  
E. R. BECKER  
C. W. LANTZ

REPORT OF THE COMMITTEE ON RESOLUTIONS

The Committee on Resolutions submits the following resolutions and recommends their adoption and incorporation in the Proceedings.

1. That the Iowa Academy of Science extend to Iowa Wesleyan College congratulations upon the celebration of the Centennial, and that the Iowa Academy by this resolution recognizes and hereby expresses its appreciation of the services rendered the people of Iowa by the hundred years of leadership in the development of the State.
2. That the officers and members of the Iowa Academy of Science extend their sincere appreciation and thanks to the president, faculty and student body of Iowa Wesleyan College for the hospitality and excellent arrangements provided for the fifty-sixth meeting of the Academy.
3. That the Iowa Academy of Science reaffirm the resolutions of the fifty-fifth meeting relative to National Defense.

Respectfully submitted,

BEN H. PETERSON

GEORGE C. HUFF

L. CHARLES RAIFORD