

# Proceedings of the Iowa Academy of Science

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## Proceedings of the Fifty-Fourth Annual Meeting of the Iowa Academy of Science, Held at Mount Vernon, April 19 and 20, 1940: Minutes of the 1940 Meeting

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PROCEEDINGS OF THE FIFTY-FOURTH AN-  
NUAL MEETING OF THE IOWA  
ACADEMY OF SCIENCE

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Held at Mount Vernon, April 19 and 20, 1940

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MINUTES OF THE 1940 MEETING

The fifty-fourth meeting of the Iowa Academy of Science was called to order by President McClenon in the Little Theater, Armstrong Hall of Fine Arts, Cornell College, at 10:30 a.m., April 19, 1940.

The following committees were appointed:

*Resolutions:* K. A. Stiles, E. E. Emme, E. S. Allen.

*Nominations:* A. C. Trowbridge, L. P. Sherman, J. W. Woodrow.

After a welcome by Dr. J. B. Magee, President of Cornell College, the general program of papers was presented, followed by adjournment until 11:00 a.m., Saturday, in the College Chapel, for the business meeting.

The business meeting was called to order by President McClenon at 11:00 a.m. in the College Chapel.

The reports of the Executive Committee, the Secretary-Treasurer, Auditing Committee and Editor were read and accepted upon motion.

The report of the Biological Survey Committee was adopted upon motion and Dr. Conard announced the possibility that the Academy might be the recipient of a gift for publication purposes in the near future.

The reports of the Committees on Conservation, Finance, and High School Relations were adopted on motion. The Academy voted commendation to the High School Relations Committee for its work and fine report.

The report of the Membership Committee was adopted and the persons named therein elected to the status recommended by the Committee.

The report of the Committee on Necrology was read and adopted by a rising vote of respect to the members commemorated. The report carried the names of Winifred Gilbert, Edward K. Putnam, John J. Bushnell, Ross Harris, Louise Sawyer, Robert I. Cratty and Edward J. Petry.

The report of the Resolutions Committee was read and the secretary was authorized to publicize the final paragraph.

The report of the Nominating Committee carried the following nominations:

President, Charles Carter, Fairfield.

Vice-president, Roy A. Nelson, Mount Vernon.

Secretary-Treasurer, J. C. Gilman, Ames.

Editor, Florence W. Nichols, Ames.

A motion instructing the secretary to cast the ballot of the Academy for the election of these members to office was carried unanimously.

The section chairmen announced the officers of their respective sections in 1940 to be as follows:

<i>Section</i>	<i>Chairman</i>	<i>Executive Committee</i>	
Botany and Bacteriology	J. E. Sass	Louisa Sargent	1939-43
Chemistry, General, Physical	Jacob Cornog	W. C. Oelke	1937-41
Chemistry, Organic, Biological	J. B. Culbertson	Ben H. Peterson	1939-43
Geology	Louise Fillman	C. S. Gwynne	1938-42
Mathematics	J. Fred Robertson	C. Gouwens	1940-44
Physics	R. G. Wilson	E. H. Collins	1938-42
Psychology	P. C. Greene	E. E. Emme	1937-41
Science Teaching	R. M. Getchell	J. B. Culbertson	1938-42
Zoology	F. G. Brooks	H. E. Jaques	1940-44

On motion the meeting adjourned.

JOSEPH C. GILMAN, *Secretary*

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#### REPORT OF THE EXECUTIVE COMMITTEE

The Executive Committee met in the President's Room, Merner Hall, Cornell College at 1:30 p.m. on April 19th. The meeting was called to order by President McClenon. Those present were McClenon, Carter, Gilman, Conard, Trowbridge, Lantz, Wilson, Culbertson, Oelke, Peterson, Gwynne, Gouwens, Emme, and Jaques.

Reports from the librarian and the A.A.A.S. representative were presented. The Association Research Grant was divided between Drs. L. R. Wilson and K. A. Stiles for the continuance of their work in paleo-botany and on spiders respectively.

It was voted that the 1941 meeting be held with Simpson College at Indianola on the third Friday and Saturday in April, the constitutional date.

A sub-committee of the Executive Committee consisting of the vice-president and the secretary was set-up to care for the general program of the annual meeting and the committee was instructed to make that program an invitational one.

The invitation of the Ohio Academy of Science to its fiftieth anniversary celebration was accepted and Dr. L. R. Wilson appointed as delegate.

The budget proposed by the secretary-treasurer was adopted and the meeting adjourned.

Respectfully submitted,

JOSEPH C. GILMAN, *Secretary*.

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#### REPORT OF THE SECRETARY 1939-40

Once a year the secretary is given an opportunity to review the work of the current year and propose advances which seem to him desirable for the better functioning of the Academy. Physically we have had a good year. Although the balance, \$170.86, is less than last year, when it is considered that the \$300.00 appropriation that was given the Committee for Biological Survey was taken from the general funds rather than Endowment, it will be clear that financially the Academy is in good shape. We still could be prompter in payment of dues; 88 members were in arrears on March 1, the

end of the fiscal year. Twelve per cent of the membership seems to me to be a larger proportion of delinquency than the otherwise high quality of our group warrants. Can this difficulty be overcome? Only if each one of us will try to meet the situation and pay up or resign. I know that many of these people who are in arrears are those who have left Iowa and therefore feel there is no longer need for their affiliation. While we would still welcome them as members, if they feel that they cannot carry the responsibility any longer, a prompt notification of their intentions would be appreciated by the secretary.

The Endowment Fund on the face value of its holdings has increased by \$257.45. This increase is in reality dependent on the increase in value of the United States Savings Bonds which are redeemable at this price only after ten years. The actual increase on March 1, the end of the fiscal year, was \$188.70, which still is something to be proud of in these more difficult financial times.

The situation in regard to the publication of the Proceedings is not as satisfactory. With the excellent start following the Ames meeting the publication of volume 46 within the year seemed possible. However, unavoidable delays have occurred and while this volume should appear shortly, the time it took to go through the process of publication was still too long. I hope that the next volume may be expedited. The problem is one for the editor and the editorial committee to solve. I urge that the section chairmen who are members of the editorial committee use every effort in their power to insure promptitude in publication. It can be done but will only be accomplished by the closest of team-work.

There is one more matter in which the membership should be more careful and that is in the promptitude of submission of their titles and abstracts for the program. In spite of the notification of a deadline on March 9, papers continued to arrive either in the secretary's office or in the hands of the section chairmen many days after that date. In fact, as late as April 10, one paper was received by the secretary. The reason for the delay in this peculiar case was asserted to be that the paper was sent to a section chairman to whom it did not seem appropriate and he (the chairman) sent it back with the suggestion that it be sent to the secretary since the chairman did not know the address of the chairman of the section to whom it should be sent. The situation needs no further comment.

In line with this type of carelessness on the part of the officers may I point out that last year two sections elected for chairmen persons who were not members of the Academy. With membership lists available at the registration desk and published rather frequently in the *Proceedings* it would seem rather undignified for the secretary to have to suggest to section chairmen that since they were elected to this office, he would appreciate their becoming members. Nevertheless, he did. They did not and it became necessary to get new persons appointed. If each of us would take our responsibilities a little more seriously, I think many contretemps of this kind could be avoided.

During the last year your secretary has had the personal gratification and signal honor of election to the chairmanship of the Academy Conference of the American Association for the Advancement of Science. He fully realizes that this honor is not his only but rather the reflection of the excellence of the organization he represents in the Conference, that is, the Iowa Academy

of Science. The chairman's address "The Organization of a State Academy" was well received and will be published in our *Proceedings*. The proposals made therein are the results of his experiences as your secretary and the reflection of the consensus of our whole Academy. He hereby acknowledges his indebtedness.

The work of your representative in the conference has dealt with the relationships of the Junior Academy of Science of Iowa to the nationalization of that movement. Progress has been made and a working agreement between the American Institute of the City of New York and the Iowa Academy of Science has practically been reached. When this cooperation has been accomplished, the Junior Academy of Science of Iowa will be able to advance in influence and effectiveness very rapidly. In the meantime as Dr. Lantz' report shows, we have been consolidating our position within the State and improved our organization in many ways.

On another front we have also made notable progress. The Academy has succeeded in obtaining co-operation with the Iowa State Medical Society in sponsoring a symposium program in the field of medical science. In my opinion all moves toward a better integration between the research group and those in the field of application should be fostered and improved. Perhaps a similar program sponsored by us with the representatives of the engineering fraternity might be envisioned in the not too distant future. The rearrangement of our program with the free period after luncheon on Friday will enable us to arrange such meetings where in the past too great compactness hampered our effectiveness. With this greater elasticity may I suggest that the possibilities of a program committee should be seriously considered. Such a committee under the chairmanship of the vice-president, so that the Executive Committee would not be enlarged (it is too large now), would relieve the secretary of an increasing responsibility and divide the work so that a greater number could participate in the activities of the Academy. The Academy has a tendency to let the secretary do it and as I grow more experienced in this office, I am sure that one of my weaknesses has been to let more and more of the responsibility relapse into the secretary's office. This tendency is one which the membership should help the secretary guard against.

In other fields the Academy has not progressed appreciably. With the Federal adsorption through the various alphabetical agencies of conservation and biological survey work, there has been very little for these committees to do except to stand by and express their willingness to co-operate. In the field of publication Dr. Conard has just returned the loan made him last year for "Plants of Iowa" so that money is now available for further publication. It is to be hoped that other publications are ready to be helped by this fund. The revolving nature of the fund should be utilized to its fullest extent and there should be a waiting list of material that may be published in this way. With our increasing emphasis on science clubs in our schools a need for local hand-book material has arisen and as yet because the initial cost of such material is relatively high, no adequate method of supplying it has been found. By using our *Proceedings* judiciously to cut down this initial cost it would seem possible to expedite the appearance of this much needed information. Your secretary, failing to interest others, is trying an experiment in this direction which he hopes will lead to more prompt appearance of the more expensive type of hand-book in the biological field. The results will be

available only after several years. Perhaps the time element will defeat the advantage of the reduced ultimate cost.

To sum up, the Academy has continued to grow in membership and influence. Its worth has been recognized by the American Association for the Advancement of Science by the election of its representative to the chair of the Academy Conference. It has undertaken co-operative agreements with the American Institute for the City of New York that will affiliate the Junior Academy of Science of Iowa with the national science club movement. It has made closer ties with the Iowa State Medical Society which should be mutually beneficial. The generous cooperation and support of the other officers and the membership of the Academy have enabled these advances. As secretary, I thank you for your generous helpfulness in the past and bespeak its continuance toward your future officers.

Respectfully submitted,

JOSEPH C. GILMAN

REPORT OF THE TREASURER

March 1, 1940

CREDITS

Balance March 1, 1939.....	\$ 336.20
Dues .....	564.05
Interest .....	4.50
A.A.A.S. grant .....	125.00
Union Story Bank Div.....	34.50
Sales of Proceedings .....	27.30
	<u>\$1091.55</u>

DEBITS

Honoraria .....	\$ 261.00
Printing .....	90.12
A.A.A.S. grant .....	125.00
A.A.A.S. meeting .....	28.50
Biological Survey .....	300.00
Junior Academy .....	31.42
Postage .....	30.88
Secy's.-office .....	23.82
Endowment fund .....	6.25
Editors office .....	23.70
	<u>\$ 920.69</u>
Balance .....	170.86
	<u>\$1091.55</u>

ENDOWMENT FUND

CREDITS

Balance March 1, 1939.....	\$ 506.32
Fees from fellows .....	36.00
Interest on bonds and savings .....	46.45
From general fund .....	6.25
	<u>\$ 595.02</u>

DEBITS

U. S. Savings Bonds -----	\$ 506.25
Balance -----	88.77
	<u>\$ 595.02</u>

HOLDINGS

Federal Farm Mortgage Bonds '64-----	\$ 500.00
Federal Farm Mortgage Bonds '49-----	500.00
Midland Theater First Mortgage 3% of 1953-----	300.00
Midland Investment Corp. Pf'd Stock 2 shares-----	200.00
U. S. Savings Bonds -----	675.00
Cash on hand -----	88.77
Total -----	<u>\$2263.77</u>

REPORT OF THE AUDITING COMMITTEE

March 18, 1940—The accounts of the Treasurer of the Iowa Academy of Science have this day been audited by the undersigned and found to be correct and in proper form.

Signed: E. R. SMITH,  
E. R. BECKER,  
JAY W. WOODROW.

REPORT OF THE EDITOR

1939-40

*To the President and members of the Iowa Academy of Science:*

The regular issue of the 1940 Proceedings is completed and will be distributed within a few weeks. The volume will be 460 pages, exclusive of the index.

The volume has increased in size from 310 pages in 1938 to 460 pages for 1939. In 1939 the Academy was allowed by the State Legislature 400 pages for their Proceedings issue.

Nine sections contributed papers. All the papers and abstracts submitted by the chairman were published during the past year in Volume XLVI.

The chairmen were most helpful and fulfilled their office as members of the Editorial Committee, however, they could not be responsible for authors who could not be reached promptly. In several instances queries developed and the editor could not make final corrections without the authors' approval.

Such delays require that much of the final work comes at holiday time and with the activities of the season the routine is interrupted.

The publisher in turn, wishes to have the greater part of the work completed before late fall, and he has given his cooperation to this end by promptly sending forward the proof.

The editor, then, must assume the responsibility for delaying the work after December.

From the past procedure a suggestion has presented itself for consideration: That a time be included on the program for the editor to meet with the section chairman before their section meetings, to discuss editorial procedure and problems.

The editor expresses appreciation to the secretary, chairmen and authors who gave their cooperation in preparing the Volume 47.

Respectfully submitted

FLORENCE W. NICHOLS, *Editor*

#### COMMITTEE ON BIOLOGICAL SURVEY

Your Committee reports that the second booklet sponsored by the Committee, Conard's Plants of Iowa, has had a good sale, so that the \$300.00 loaned by the Academy has been returned. The fund is now available for another project. The need of pamphlets on spiders, beetles, mosses, mushrooms and other fungi, fossils, rocks and minerals, perhaps Indian relics has been suggested. The Committee does not know of any such manuscripts in preparation.

The Committee commends to all interested the new "Keys to the Woody Plants of Iowa in the vegetative Condition," by Dr. H. T. Harrington, a member of this Academy (State University; Feb. 1940). Price 50c.

Respectfully submitted

C. H. JAQUES,

R. B. WYLIE,

HENRY S. CONARD, *Chairman.*

#### REPORT OF THE FINANCE COMMITTEE IOWA ACADEMY OF SCIENCE

The report of our Treasurer shows a healthy financial status with a fair balance on hand at end of the year.

Last year the committee recommended the grant of \$300 to Dr. H. S. Conard for the publication of "Plants of Iowa." Dr. Conard has now returned this \$300 and it is placed in the endowment fund.

As authorized by the committee of last year at Ames, U. S. Savings bonds to the extent of \$675 have been added to the portfolio of the Academy endowment fund. This endowment fund has been growing steadily, though slowly. The committee will welcome suggestions from Academy members on possible means of additional increases.

U. A. HAUBER,

E. W. LINDSTROM,

H. S. NOLLEN,

J. B. CULBERTSON, *Chairman.*

#### REPORT OF THE HIGH SCHOOL RELATIONS COMMITTEE 1939-40

The High School Relations Committee has concerned itself largely this year with working out an affiliation of the Junior Academy of Science of Iowa with the American Institute of New York City. This affiliation has been made possible largely through the work of Dr. Gilman. The Junior Academy Council, at a meeting held in March, was unanimous in favor of the affiliation and agreed upon a plan for the association. The High School



Relations Committee and Dr. H. H. Sheldon, managing trustee of the American Institute, have approved these plans and we are recommending to the Iowa Academy of Science, subject to the approval of the Executive Committee, that this affiliation be made according to the following plan.

1. The Iowa Junior Academy of Science will be affiliated with the American Institute of New York City.
2. The American Institute agrees to cooperate with the Junior Academy in the organization of high school science clubs in Iowa.
3. The organization shall have one name, the Junior Academy of Science of Iowa. Its affiliation being stated as a sub-head under that title.
4. The office of the permanent secretary of the Junior Academy of Science of Iowa shall be the office through which all business involving the Junior Academy, and the American Institute will be transacted.
5. The dues shall be \$2.50 per club year. Two dollars of this shall go to the American Institute and the remainder retained by the Iowa Junior Academy of Science. In addition, each club shall pay one dollar convention fee if they attend the annual convention or exhibit at the convention. Also each club is to pay ten cents per member for each member over the number of twenty, this amount to be paid to the American Institute.
6. The American Institute agrees to give aid in the promotion of the clubs in the state and to furnish each club with five subscriptions to their publication, *The Science Observer*.
7. The emblem shall be the emblem now in use by the Junior Academy of Science of Iowa.
8. A single charter issued by the joint action of the Iowa Academy and the Institute will be issued to each member club.

Our committee feels that such an affiliation will be of great service in developing the high school science clubs in Iowa.

The annual convention was held at Mount Vernon, Iowa. There were sixty delegates present, representing fifteen high schools. The total attendance was 160. The Committee wishes to express its appreciation and thanks to Cornell College and the Mount Vernon High School for the splendid cooperation that they have given in this convention. It has been one of the most efficiently planned conventions that we have ever held.

Nine essays were entered in the essay contest. Superior rating was given to Myrle Bartholmew of Cedar Falls High School and awards of excellent were given to Margaret Hansen of Cedar Falls High School; Doris Franz of Dubuque Senior High School; Gerry Karr of Central High School, Sioux City.

In the exhibit of high school projects the awards are as follows:

1. Physical Science
  - Superior — Marion High School
  - Excellent — Iowa Falls High School
  - Excellent — Iowa City High School
  - Honorable mention — Cedar Falls High School
2. Biological Science
  - Excellent — Dubuque High School
  - Excellent — Cedar Falls High School
  - Honorable mention — Iowa City High School
3. Mathematics
  - Superior — Iowa Falls High School

4. General Science

Superior — Amos Hiatt Jr. High School, Des Moines

5. Sweepstakes

Superior — Marion High School

The officers elected by the Junior Academy for the year 1940-41 are:

President — John Poole, Dubuque High School.

Vice President — John Rasmussen, East High School, Des Moines.

Secretary — Betty Long, Iowa Falls High School.

Treasurer — Robert Palik, Iowa City High School.

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

Senior Councilor — John Bliese.

Junior Councilor — Charles Trchsel.

Permanent Secretary — D. C. Stroud.

Respectfully submitted

HIGH SCHOOL RELATIONS COMMITTEE,

C. W. LANTZ, *Chairman*.

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REPORT OF THE MEMBERSHIP COMMITTEE

The names of the following persons have been proposed for membership or transfer as indicated and the membership committee recommends their election:

*Fellows*

N. B. Conkwright, Iowa City; O. C. Irwin, Iowa City; R. Rupert Kountz, Iowa City; Don Lewis, Iowa City; J. B. MacGregor, Mt. Pleasant; John A. McGeoch, Iowa City; Nellie M. Naylor, Ames; T. H. Marron, Des Moines; Emil C. Miller, Decorah; Nandor Porges, Ames; C. R. Strother, Iowa City; J. B. Stroud, Iowa City.

*Transfer*

Bruce F. Stiles, Council Bluffs.

*Associates*

Thomas W. Amsden, Dubuque; L. K. Arnold, Ames; Lester L. Bissinger, Des Moines; Ivan Brooks, Mt. Pleasant; Walter Brown, Cedar Falls; Hugh Clark, Des Moines; Loran L. Danielson, Iowa City; R. A. Dennison, Iowa City; Wm. Dreier, Ames; Louis De Vries, Ames; J. Wilbur Eastman, Des Moines; Fletcher Condit, Dubuque; Emery G. Fritsch, Rockford, Ill.; Harold Gunderson, Ames; Wm. J. Harber, Ames; George Hartman, Ames; Edna Hartmann, Des Moines; Lloyd A. Knowles, Iowa City; Richard N. Lorenzen, St. Ansgar; A. M. Lucas, Ames; Bradford K. MacGaw, Mt. Vernon; Glen Mallams, Fremont, Iowa; Frances Mussey, Grinnell; Roberta O. Harra, Grinnell; Fred J. Pierce, Winthrop; James Shipley, Wilmington, Ill.; E. B. Speaker, Des Moines; G. F. Sprague, Ames; Norman M. Sulkin, Iowa City; Joseph B. Taubman, Iowa City; Paul E. Twining, Ames; Walter G. Venzke, Ames; Robert C. Vorhis, Iowa City; Harland L. Wetzstein, Iowa City; Robert M. Williams, Fairfield; C. P. Winsor, Ames; M. Erik Wright, Iowa City; George Y. Young, Ames.

REPORT OF THE RESOLUTIONS COMMITTEE FOR 1940

Your Committee on Resolutions of this Academy submits the following resolutions:

Resolved that the Iowa Academy of Science recognize with gratitude the efforts of Cornell College, President J. B. Magee, and in particular Professor Roy A. Nelson and the local committee in the interest of the 54th annual meeting. All arrangements have been most adequate, the display of the art of Bertha Jaques was a very welcome feature of the meetings; above all, we wish to praise the all-prevading spirit of warm cordiality which was felt by everyone.

That we reaffirm our interest and support of our younger colleague, the Junior Academy of Science, and we express our sincere gratitude to Professor J. B. Culbertson, his committee and the Mount Vernon High School for the courtesies extended and accommodations furnished to the members of Junior Academy.

Dr. J. C. Gilman is to be most highly commended for arranging the excellent "Symposium on Vitamines" and thus inaugurating a program method which has distinct possibilities for good. It is hoped that such programs, uniting workers in various fields, yet without decreasing their interest in special sections, will take root and become one of the fine traditions of the Academy.

We observe with sorrow the effects of wars on science in other lands — the diversion of scientific endeavor to purposes of destruction, the enormous depletion of the world's natural resources, the forced cessation of active research, of learned publication, of those international communications so essential to scientific progress. Especially do we deplore the increase of that area in which men are not free to learn, to speak, to teach the truth according to their intelligence and conscience, and in which race may bar them from contributing to the advancement of knowledge. We express our determination to reduce, so far as possible, the international insulation of intellect. And we will be firm in resisting, in America, those baleful effects of war and oppression on science which we observe abroad — and indeed, in strengthening the spirit of freedom which the progress of mankind requires.

KARL A. STILES, *Chairman.*

EARLE E. EMME.

EDWARD S. ALLEN.