

1944

Reports - Standing Committees of the Iowa Academy of Science; Revised Consitution of the Iowa Academy of Science, 1944

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It was moved, seconded and passed that this new committee on grants study and report on the application of Professor Herman Brandt for aid from the revolving fund of the Academy in the publication of a manuscript ready for immediate publication. The committee appointed by Dr. Smith consisted of J. C. Gilman, A. H. Lauer, L. R. Wilson. The Executive Committee adjourned until 4:00 P. M. to give this committee time to study Professor Brandt's manuscript.

At 4:00 P. M. the President called the Executive Committee to order.

Dr. Brown announced the names of the councilors for the Junior Academy: Miss Myra G. Willis, Wilson High, Cedar Rapids, as senior councilor for one year. Mr. A. C. Walz, University High, Iowa City, as Junior councilor.

Professor Lauer reported for his committee that the manuscript of Dr. Herman Brandt is of considerable merit and should be considered by the Academy. Dr. Brandt was asked to prepare a more accurate statement as to expense of the project and that this information be referred to the Executive Committee for further action.

Dr. Aikman referred again to the importance of the State procuring virgin prairie spots for preservation.

The Executive Committee was then adjourned.

REPORT OF THE SECRETARY

With a lapse of one year's meeting of the Iowa Academy of Science because of the conditions due to the war, your Executive Committee was unanimously of the opinion that a profitable meeting could be held this year. There has been a most generous response by the membership and a very adequate program is provided. Because of the crowded conditions in the colleges due to the Army Specialized Training Program, it was felt best to meet for one day only in the Montrose Hotel in Cedar Rapids. The wisdom of this action is tested today.

The Academy membership has kept up to a surprising degree. We have at present 2 honorary fellows, 3 emeritus fellows, 20 life fellows, 271 fellows and 341 associates making a total of 637. In my treasurer's report, I show that the payment of dues by members has been very prompt even without the Academy meeting last year and this indicates the interest of the entire membership in the Academy.

A skeleton meeting of the Junior Academy is being held this year. It is to be hoped that the interest in this Junior Academy will be kept alive until that time when their program can be restored to normal again.

A committee appointed to revise and bring the constitution up to date is at work and ready to make a preliminary report.

The deficit incurred by the Academy in the publication of the last two volumes of the Proceedings of the Iowa Academy of Science was paid by the State of Iowa.

The Academy is holding up very well indeed in these trying days, let us not in any way allow ourselves to lose our own individual interests in this Iowa Academy of Science.

Respectfully submitted,
CORNELIUS GOUWENS, *Secretary*

REPORT OF THE TREASURER

Balance on hand March 1, 1943		
On deposit—Union Story Trust and Savings Bank		\$ 488.76
Receipts:		
Dues*	\$ 861.20	
Sales	23.42	
Research Grant	123.50	
Trust Certificate	19.89	
Interest	50.00	
Refund on express paid	0.72	
Total	\$1,078.73	\$1,567.49

Disbursements:

Librarian—Charles H. Brown		
Postage on Proceedings	50.79	
Tribune Publishing Company		
Envelopes for Proceedings	49.73	
Cornelius Gouwens—Stipend (Feb. 1, 1943-Mar. 1, 1944)	110.00	
L. R. Wilson—Research Grant	36.00	
Karl A. Stiles—Research Grant	43.75	
Martin Fritz—Research Grant	43.75	
Junior Academy of Science	70.00	
L. R. Wilson—Editor's Stipend	50.00	
D. C. Stroud—Secretary of Junior Academy Stipend	25.00	
Transfer to Savings Account		
Fellows' Membership transfer fees	14.00	
Transfer to Endowment		
Used for purchase of bond	500.00	
Bank Box Rent	1.80	
Postage, stationery	103.02	
Editor's office expenses	45.13	
Bank check exchange	3.98	
Secretary's office expenses	23.98	
	\$1,170.93	

Balance on hand March 1, 1944

On deposit Union Story Trust and Savings Bank \$ 396.56

*This includes \$187.00 of 1944-45 dues collected in advance in February Audited March 24, 1944.

C. S. GWYNN

LESTER T. EARLS

SAVINGS ACCOUNT

Balance on hand, March 1, 1943..... \$ 671.41

Receipts:

Interest	\$ 5.80
Fellows membership transfer fees.....	14.00

\$ 691.21

Disbursements:

Used for purchase of Government bond.....	240.00
Balance on hand, March 1, 1944	
On deposit Union Story Trust and Savings Bank	\$ 451.21
Audited March 24, 1944.	

C. S. GWYNNE

LESTER T. EARLS

HOLDINGS AND SECURITIES

Iowa Academy of Science March 1, 1944

Federal Farm Mortgage Corporation 3¾% bond due 1964 redeemable 1944.....	\$ 500.00
Federal Farm Mortgage Corporation 3% bond due 1949 redeemable 1944.....	500.00
United States Treasury Bonds 3¾% due 1944-46 redeemable 1944.....	300.00
United States Treasury Bonds, Series D Face value \$675.00 purchased July 1939 due 1949 present value	560.25
Midland Investment Corporation Preferred Stock \$200.00—present value	
United States Treasury Bond, Series F Face value \$1,000.00 purchased December 1943 due 1955 present value	740.00
Midland Theatre Corporation bonds 3% Face value \$300.00—present value.....	120.00
Savings Account March 1, 1944	
Union Story Trust and Savings Bank, Ames, Iowa.....	451.21
Checking Account March 1, 1944	
Union Story Trust and Savings Bank, Ames, Iowa.....	396.56
Total	<u>\$3,568.02</u>

Audited March 24, 1944.

C. S. GWYNNE

LESTER T. EARLS

JUNIOR ACADEMY OF SCIENCE

Balance on hand June 1, 1943.....	\$ 77.57
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Receipts:

Payment on Trust Certificate—Union Story Trust and Savings Bank	5.18
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For support from Iowa Academy of Science.....	70.00
Membership fees	1.50
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Balance on hand March 1, 1944.....	\$ 154.25
Audited March 24, 1944.	
C. S. GWYNNE	
LESTER T. EARLS	

REPORT OF AUDITING COMMITTEE
Iowa Academy of Science

We have examined the accounts and records of the Academy Secretary-Treasurer, Mr. Cornelius Gouwens, for the period March 1, 1943 to March 1, 1944, and find them to be correct and in good order, and the securities listed to be in his possession. We believe the Academy is to be congratulated upon the very efficient service rendered by Mr. Gouwens.

C. S. GWYNNE
LESTER T. EARLS
March 24, 1944

REPORT OF THE FINANCE COMMITTEE (1944)

Copies of the "Report of the Treasurer", printed elsewhere in this "Proceedings of the Iowa Academy of Science", were sent to members of the Finance Committee and duly approved by them.

At the 1943 meeting of the Academy the Executive Committee passed a motion to the effect "that the financial reports of the Academy be clarified and that the Finance Committee consider and make recommendations in the matter of accounting and presentation of the financial statements of the Academy." In conformity with this motion the Treasurer has made certain changes in the form of his report. The various items of receipts and disbursements are given in greater detail than heretofore. The former general item of "honoraria" paid to the Treasurer and Editor of the Proceedings as token compensation for their services has been broken up into a report of the separate "stipends" rewarded to each. Also the present values instead of face values are given for the bond holdings. It is to be noted also that the accounts and records of the Academy Secretary-Treasurer, Cornelius Gouwens, for the period March 1, 1943 to March 1, 1944, were examined by an auditing committee composed of C. S. Gwynne and L. T. Earls, members of the Academy. These accounts and records were found to be in good order, and the securities as listed were in the possession of the Academy Secretary-Treasurer.

The first three government bonds listed under "Holdings and Securities" must be redeemed in 1944. By unanimous agreement of the Finance Committee, it was decided to reinvest the return on these together with sufficient money from the "Savings Account", namely \$200.00, to make a total investment of \$1,500.00 in U. S. Treasury G Bonds.

During the past year J. C. Gilman was appointed a member of this Committee by the Academy President to fill the vacancy caused by the death of Henry S. Nollen.

Members of the committee,

J. C. GILMAN

U. A. HAUBER

E. W. LINDSTROM

J. B. CULBERTSON, *Chairman.*

REPORT OF THE MEMBERSHIP COMMITTEE

The membership committee submits the following recommendations for the year 1944:

1. That A. E. Aitchison and W. H. Davis be elected emeritus Fellows as recommended by E. J. Cable and J. C. Gilman.

2. That ten Fellows be elected as indicated by the accompanying membership cards.

3. That sixteen members be transferred from Associates to Fellows as indicated by the accompanying membership cards.

4. That forty-seven new Associates be elected as indicated by the accompanying membership cards.

5. In addition we announce election of six new members by the Executive Committee during the year.

The applications have all been endorsed by two sponsors and are in order.

The names of all of these members will be published in the Proceedings.

Respectfully submitted,

R. W. GETCHELL

D. L. HOLL

L. D. WELD

P. E. KAMBLY, *Chairman*

EMERITUS FELLOWS

Alison E. Aitchison.....Iowa State Teachers College, Cedar Falls, Iowa

W. H. Davis.....Agricultural College, Amherst, Mass.

TRANSFERRED

W. A. Anderson.....Botany Dept., S. U. I., Iowa City, Iowa

R. A. Bair.....Belle Glade, Florida

Ivan L. Boyd.....Baldwin, Kansas

H. L. Dean.....Iowa City, Iowa

M. L. Grant.....Cedar Falls, Iowa

G. B. Hartman.....Ames, Iowa

John L. Holmes.....I. S. C., Ames, Iowa

H. C. Murphy.....Ames, Iowa

Ben H. Peterson.....Cedar Rapids

C. S. Reddy.....Ames, Iowa

William Rice	Ames, Iowa
George Semeniuk	Ames, Iowa
G. F. Sprague.....	Ames, Iowa
E. C. Volz.....	Ames, Iowa
Gregory Wannier.....	S. U. I., Iowa City
C. P. Wilsie.....	Ames, Iowa

NEW FELLOWS

Keith E. Anderson.....	Iowa Geological Survey, Iowa City, Iowa
J. H. Butchart.....	Grinnell
William E. Hale.....	Iowa Geological Survey, Iowa City, Iowa
Stanley E. Harris, Jr.....	Iowa Geological Survey, Iowa City, Iowa
W. J. Hooker.....	Botany Dept., I. S. C., Ames, Iowa
Albion Roy King.....	Cornell College, Mt. Vernon, Iowa
Frank H. Mendell.....	Ames, Iowa
Leslie K. Patton.....	Coe College, Cedar Rapids, Iowa
Futoshi Takazawa.....	S. U. I., Iowa City
Robert M. Warner.....	Laurel, Iowa

ASSOCIATES

Richard Armacost.....	Syracuse University, Syracuse, N. Y.
Winifred Asprey.....	Iowa City, Iowa
Paul H. Bacher.....	1619 So. 15th St., Burlington, Iowa
Marjorie E. Barr.....	2015 Ave. J, Ft. Madison, Iowa
James W. Barrett.....	I. S. C., Ames, Iowa
Agnes F. Belanger.....	I. S. C., Ames, Iowa
R. W. Bledsoe.....	Gainsville, Florida
Bernice Brown (Mrs. Lynn T.).....	Iowa State College, Ames, Iowa
Louise J. Brown.....	138 Hyland Avenue, Ames, Iowa
Barbara Coffman.....	Keota, Iowa
D. B. Conklin.....	Dept. of Botany, S. U. I., Iowa City, Iowa
Elizabeth M. Cooper.....	Columbus Junction, Iowa
Evelyn Courtney.....	Center Junction, Iowa
Watson M. Davis.....	Mount Vernon, Iowa
L. A. Dietrich.....	Des Moines, Iowa
James R. Dudley.....	12 Suburban Avenue, Cos Cob, Conn.
William L. Dunn.....	Mt. Vernon, Iowa
Paul Fan.....	507 Iowa Avenue, Iowa City
Kathleen Ford.....	Mt. Pleasant, Iowa
Elda Gabeline.....	Mt. Union, Iowa
Lester N. Gill.....	Iowa State College, Ames, Iowa
Mrs. Ella Gunn.....	203 W. 3rd St., Boone, Iowa
R. J. Hekel.....	203 E. Broad, Mt. Pleasant, Iowa
P. S. Helmick.....	Drake University, Des Moines, Iowa
Doris Hilleary.....	1321 Madison Avenue, Burlington, Iowa
S. W. Hockett.....	Iowa Wesleyan College, Mt. Pleasant, Iowa
Rev. Joseph A. Hratz.....	St. Ambrose College, Davenport, Iowa
Earl D. Hubbard.....	1031 Elm St., Grinnell, Iowa
Doris Helen Luber.....	612 Fourth Avenue, S. W., Cedar Rapids, Iowa

Sister Mary Paul Meier	O. S. B.	St. Vincent's Hosp.,	Sioux City, Iowa
Robert C. Miller	.....354	South Kenilworth Ave.,	Oak Park, Illinois
Thomas Morrissey	.....921	Mississippi Ave.,	Davenport, Iowa
Steven Pattee	.....	Roosevelt High School,	Cedar Rapids, Iowa
Weldon W. Rau	.....	Dept. of Geology, S. U. I.,	Iowa City, Iowa
Leonard Redlinger	.....300	N. Main,	Mt. Pleasant, Iowa
Mart P. Schemel	.....	Coe College,	Cedar Rapids, Iowa
Gordon B. Schilz	.....	Iowa Wesleyan,	Mt. Pleasant, Iowa
Lillian Serbousek	.....1226	2nd St. S. W.,	Cedar Rapids, Iowa
John B. Shumaker	.....1421	47th St.,	Des Moines, Iowa
Herbert G. Tag	.....		Mt. Pleasant, Iowa
Dorothy M. Taylor	.....	University of Dubuque,	Dubuque, Iowa
Jo-fen Tung	.....	University of Iowa, Chem. Dept.,	Iowa City, Iowa
Edith C. Uhl	.....3008	West St.,	Ames, Iowa
Holly Wagner	.....		Danville, Iowa
J. T. Whitworth	.....610	E. Jefferson,	Iowa City, Iowa
K. A. Yamakawa	.....933	High,	Grinnell, Iowa
Leon Yarrow	.....		Iowa City, Iowa

Other Associates elected during the past year :

Gregory Wannier	.....		Iowa City, Iowa
Verne J. Rice	.....		Iowa City, Iowa
George R. Otto	.....		Iowa City, Iowa
Clarence H. Nelson	.....		Iowa City, Iowa
Mrs. Harold R. Peasley	.....		Des Moines, Iowa
Justine Bates	.....		Grinnell, Iowa

REPORT OF THE EDITOR

The Proceedings of the Iowa Academy of Science for 1943 are published in Volume 50. It is a publication of 358 pages. The first 29 pages are devoted to a list of members, reports of officers and committees. Fifteen pages contain memorials of eight members that died during 1941-43. Three hundred and seven pages are devoted to 31 scientific papers by 41 authors. The index is contained in four pages.

The editor wishes to thank all those authors and advisers that gave their help in the preparation of Volume 50.

Respectfully submitted,

L. R. WILSON, *Editor*

April 15, 1944

THE REPORT OF THE IOWA STATE COLLEGE LIBRARY TO
THE IOWA ACADEMY OF SCIENCE FOR THE YEAR
ENDING ON FEBRUARY 29, 1944

During the year 1943-44, 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	127
Foreign	64
	191

Number of publications normally received from these institutions:

Domestic	372
Foreign	172
	544

Number of publications received on direct exchange:

Domestic	60 from 42 institutions
Foreign	24 from 22 institutions
	84 64

Number of publications normally received in exchange for Iowa Academy of Science Proceedings plus publications of Iowa State College:

Domestic	312 from 57 institutions
Foreign	148 from 40 institutions
	460 97

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

Report on Iowa Academy of Science sales fund:

Balance on hand Feb. 28, 1943.....	\$204.89
Sale of Volumes of Proceedings	
\$22 Plus \$1.42 postage.....	23.42
	23.42
Total Receipts	\$228.31

Disbursements for Postage	
Postage for Volumes Sold.....	1.42
Postage for membership and sub- scription copies, Vol. 49.....	29.94
	31.36
Total Disbursements	31.36
Balance 3-1-44	\$196.95

The increase in postage is caused by the fact that Book Rate postage was raised from 1½ cents a pound to 3 cents a pound. Most of the volumes of the Proceedings now are sent for 6 cents instead of 3 cents as formerly.

CHARLES H. BROWN, *Librarian*
IOWA ACADEMY OF SCIENCE

REPORT OF THE HIGH SCHOOL RELATIONS COMMITTEE, 1944

There has been no meeting of the Junior Academy of Iowa nor of the High School Relations Committee during the year ending April 15, 1944.

The Executive Committee of the Iowa Academy of Science met in Cedar Rapids on May 1, 1943 and at that meeting, authorized limited cooperation with Science Clubs of America. Science Clubs of America is sponsored by Science Service and the active director of both is Watson Davis. The funds for the promotion of the clubs and the Science Talent Search which is conducted annually is furnished wholly or in large part by Westinghouse Electric Company.

At the request of Science Clubs of America that a cooperator or cooperators be designated in Iowa, President E. R. Smith of the Iowa Academy suggested that the chairman of the High School Relations Committee accept that position if he was willing to assume the responsibility. The chairman of the Committee on High School Relations has been listed as a cooperator of Science Clubs of America in Iowa since September 1943.

The coordinator receives copies of pamphlets and booklets sent out to sponsors of Science Clubs of America, the addresses of all sponsors of clubs in the state of Iowa, records of all who participate in the Science Talent Search and considerable other information regarding science clubs in all parts of the United States.

During this school year addresses of 118 sponsors of science clubs in Iowa have been received. Sixty-two requests for Science Talent search examinations were sent in from Iowa. From one to fifteen copies of the examination were requested by each sponsor making a total of 266 copies requested in Iowa. No enumeration of the number of students in Iowa who completed all requirements of the talent search has been made but in the nation, about one-fifth of those for whom

examination papers were ordered completed the requirements: The probable number for Iowa is 53. Science Clubs of America asks that the Junior Academy assist such of these 53 as it deems worthy to secure scholarships and fellowships in colleges. Especial attention should be given to the seven Iowa students who were awarded honorable mention. About the first of the year the Permanent Secretary of the Junior Academy of Science, D. C. Stroud, sent a letter to each of the clubs whose sponsors were named on the lists submitted by the science clubs of America offering to give a signed certificate of merit for carrying out worthwhile projects during the school year. Mr. Stroud has also organized a meeting for the Junior Academy to be held here in Cedar Rapids today. Mr. Stroud has done more for the Junior Academy than anyone could have hoped to accomplish under the existing conditions.

The contract with Science Clubs of America has been simplified. Our experience in cooperating with the organization since September 1943 leads us to believe that it will not demand unreasonable performance on the part of a cooperator. We cannot originate or correlate a hundred science clubs in Iowa without its aid. Science Clubs of America has strong financial backing and able management and will continue their program in Iowa regardless of what we do. By a moderate rearrangement of our program we can continue and probably extend the influence of the Junior Academy by cooperating with Science Clubs of America. It is recommended that this committee be authorized to sign an agreement to cooperate with Science Clubs of America.

D. C. STROUD, *Permanent Secretary*

P. L. RISLEY

F. E. BROWN, *Chairman*

REPORT OF THE COMMITTEE ON REVISION OF THE CONSTITUTION

The Committee on the Revision of the Constitution met at Cedar Rapids April 15th at 2:45 p. m. The following changes from the published constitution, volume 40: pp. 12-14, are recommended. Section 3 was rearranged to give the materials on membership greater orderliness and to recognize "fellow emeritus" as a new class of members as voted in 1939 (Proc. v. 46). In Section 5, the section representatives on the executive committee have been discontinued. In Section 7, distribution of the Proceedings has been authorized. The by-laws also have been rearranged and the wording changed for the sake of clarity. The office of Section Secretary has been made optional in Article 3. Article 4 recognizing the Library has been added. Article 7 of the old constitution, "Section Representatives" has been omitted. A library committee has been provided for in Article 7. Article 10 recognizing the change in fiscal year from date of meeting to March 1st has been inserted.

We hereby recommend that this revised constitution be published in the Proceedings in order that it may be distributed to the membership as ordered in Section 8 with a view of its adoption at the 1945 meeting of the Academy.

R. A. NELSON

H. E. JAQUES

R. W. GETCHELL

C. GOUWENS

JOSEPH C. GILMAN, *Chairman*

REVISED CONSTITUTION OF THE IOWA ACADEMY
OF SCIENCE, 1944

Sec. 1. *Name*—This organization shall be known as the Iowa Academy of Science.

Sec. 2. *Object*—The object of the Iowa Academy of Science shall be the encouragement of scientific work in the state of Iowa.

Sec. 3. *Membership*—The membership of the Academy shall consist of, (1) honorary fellows, (2) fellows emeritus, (3) life fellows, (4) fellows, and (5) associates. All elections to membership shall be made at the annual meeting except as hereafter provided.

Honorary fellows shall be elected from among especially productive scholars in Science. They must be nominated by ten fellows of the Academy. This nomination, together with a record of the achievements in Science of the nominee must be given the secretary and by him to each fellow previous to the annual meeting at which the election is to occur. A unanimous vote of the fellows present is necessary for their election.

Fellows emeritus may be elected from among those fellows who have been members in good standing for twenty-five years (25), upon their nomination by the membership committee. The assent of three-fourths of the members present is required for their election.

Life fellows become such by payment of special fees as provided for in Section 4. Only fellows in good standing are eligible for this classification.

Fellows shall be elected from persons who are actively engaged in scientific work. They shall be nominated by two members of the Academy in good standing and shall be approved by the membership committee. Assent of three-fourths of members present is required for election.

Associates shall be elected from those persons who are interested in the progress of Science even though they may not be directly contributing to original research. Nomination and election are under same regulations as for fellows excepting that they may be elected between meetings by action of the executive committee.

Privileges—Honorary fellows have the right to present papers under the usual restrictions but do not have the right to vote or hold office. Life fellows, fellows emeritus and fellows are eligible to hold offices

of the Academy and to vote on all questions which may arise for decision. Associates shall be entitled to all privileges granted fellows except those of holding any one of the four elective offices provided for in Section 5, and of voting on those matters specifically limited to fellows.

Sec. 4. *Fees*—Honorary fellows shall pay no annual fees or entrance fees. Fellows emeritus shall be exempt from all fees. Fellows shall be required to pay an entrance fee of \$2.00, also an annual fee of \$1.00 due at each annual meeting *including* the one at which time he was elected. Any fellow in good standing may become a Life fellow by payment of \$20.00 which shall be additional to the entrance fee. Associates shall pay only the \$1.00 annual dues, but on election as fellows are required to pay the \$2.00 entrance fee in addition to the annual fee for that year.

Fellows and associates in arrears for two years and failing to respond to notification from the treasurer shall be dropped from the Academy roll.

Life membership fees and entrance fees from fellows are to be invested and only the interest on the same may be used for current expenses of the Academy. The investments of the Academy shall be made upon the advice of the committee on finance and endowment.

Sec. 5. *Officers*—The officers of the Academy shall be a president, a vice-president, an editor and a secretary-treasurer. This group of officers shall be elected at each annual meeting from the fellows in good standing. Their duties shall be such as ordinarily devolve upon these officers. They together with the chairmen of the standing committees of the Academy shall constitute the executive committee.

The executive committee shall have the authority to fix the time and place of meetings and to transact such other business as may need attention between the meetings of the Academy. It may elect to associate membership such persons as may be nominated in the interval between annual meetings.

The executive committee may arrange for public lectures or addresses on scientific subjects.

Sec. 6. *Papers*—All papers presented to the Academy and offered for publication in its proceedings shall be the results of original investigation.

Papers from non-members will be accepted for presentation before the Academy and for publication in its Proceedings only upon vote of the editorial committee.

Sec. 7. *Proceedings*—The editor shall each year publish the Proceedings of the Academy in the form prescribed by law. These Proceedings shall include the minutes of all meetings held during the year together with such other matter as is deemed of importance, and such of the papers presented to the Academy as are offered and accepted for publication. The Proceedings shall be sent on publication to all members of the Academy in good standing.

Sec. 8. *Amendments*—This constitution may be amended or revised at any annual meeting by assent of a majority of the votes cast by fellows, provided that notice of proposed amendment or revision has been given to the fellows at least one month previous to the meeting and that absent fellows may deposit their votes, sealed, with the secretary.

BY-LAWS

Art. 1. *Meetings*—Unless otherwise decided by the executive committee the annual meetings of the Academy shall be held on or about the third Friday and Saturday of April.

Art. 2. *Quorum*—A quorum at the sessions of the annual meeting shall consist of fifteen members, of whom at least ten shall be fellows.

Art. 3. *Sections*—Sections of the Academy shall be organized as follows: botany; chemistry, inorganic and physical; chemistry, organic and biological; geology; mathematics; physics; psychology; science teaching; zoology. Allied subjects should find place with the section most closely related. Other sections may be organized as the need may arise. These sections shall hold such meetings as their officers shall decide. Each section shall elect annually a chairman, who shall hold office until a successor is elected. The duties of the chairman are to preside at the section meetings, make up their programs, and serve on the editorial committee. Each section may elect a secretary, who shall carry the duties customary for that office.

Art. 4. *Library*—Iowa State College Library shall be the depository for the Academy and the Librarian of that institution shall be the Librarian of the Academy. He shall arrange for the distribution of the Proceedings and such exchanges and sales as he deems appropriate. The librarian further shall be a member of the Library Committee and be empowered to sit on the Executive Committee when matters pertaining to the library policies of the Academy are under consideration.

Art. 5. *Editorial Committee*—The editor and the retiring section chairmen shall edit papers which are presented for publication, and shall have the right to correct, revise, or reject these papers.

Art 6. *Standing Committees*—The committees on biological survey, conservation, high school relations, membership, finance and endowment, and legislation shall be standing committees with a continuing chairman. These committees are to be appointed by the president of the Academy at the annual meeting. The chairmen of these committees shall be appointed for a term of six years; the chairman of one committee is to be appointed each year. Their functions are to begin at the time of the meeting at which they are appointed. The chairmen of the standing committees shall be ex-officio members of the executive committee of the Academy.

Art. 7. *The Library Committee*—The Library Committee of the Academy shall be the secretary-treasurer, chairman, the librarian and

two other members to be appointed annually by the president. The appointed members shall serve one and two years respectively; thereafter each is to serve two years beginning with the year of appointment.

Art. 8. *Representative in A. A. A. S.*—This Academy having affiliated with the American Association for the Advancement of Science and being entitled to a representative on the Council of that Association, such representative shall be the secretary-treasurer of the Academy. In case the secretary-treasurer is unable to attend the meeting of the Association, the president of the Academy is authorized to appoint another fellow as representative of the Academy in his place.

Art. 9. *Junior Academy*—The Academy having helped establish and affiliate with itself the Junior Academy of Science of Iowa in 1932 recognizes that affiliation by the appointment of two councilors to the Council of the Junior Academy. These Councilors shall be nominated by the Committee on High School Relations and approved by the Executive Committee in accordance with the Constitution of the Junior Academy of Science of Iowa.

Art 10. *Fiscal Year*—The fiscal year of the Academy shall run from March first to March first.

Art. 11. *Revision*—These by-laws may be added to or modified at any annual meeting by a majority of the members present.