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Proceedings of the Forty-Fourth Annual Meeting of the Iowa Academy of Science, Held at Ames, May 2 and 3, 1930: Minutes of the Meeting; Staff & Committee Reports

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**PROCEEDINGS OF THE FORTY-FOURTH AN-
NUAL MEETING OF THE IOWA
ACADEMY OF SCIENCE**

Held at Ames, May 2 and 3, 1930

At the opening of the meeting President Spinney announced the following committees:

Necrology — J. H. Lees, L. H. Pammel, W. N. Norton, H. E. Jaques, F. A. Stromsten.

Nominations — H. S. Conard, G. L. Houser, L. S. Ross, L. Begeman, T. C. Stephens.

Resolutions — P. S. Helmick, R. A. French, C. W. Wester, Charles Carter, C. C. Wylie.

Auditing — W. F. Coover, F. F. Almy, H. R. Dill, N. Knight, William Kumerth.

Sec'y's Report — E. J. Cable, C. J. Lapp, W. F. Kubichek, F. B. Knight, G. W. Martin.

The reports of the Executive Committee, the Treasurer, the Auditing Committee, the Secretary, the Committee on the Secretary's Report, the Editor, the A.A.A.S. Representative,¹ Committee on Biological Survey, Committee on Conservation, Committee on History, Committee on Membership, Necrology, Resolutions and Nominations were presented and accepted on motion.

The motion of acceptance of the treasurer's report carried with it recognition of the efficiency of the treasurer and the excellent financial condition of the Academy. The report of the committee on the secretary's report was accepted and the recommendations contained therein were reported to the Executive Committee for consideration and subsequent action. The motion of acceptance of the A.A.A.S. representative's report carried with it a vote of thanks to Dr. Morehouse for the excellent manner in which the work of the representative was carried out in regard to the Des Moines meeting of the A.A.A.S.

The greetings of the Academy were sent to Professor M. F. Arey of State Teachers College and Dr. T. H. Macbride, President emeritus of the State University.

Dr. H. S. Conard of the nominations committee put the following names in nomination for Academy officers and the secretary was ordered to cast the ballot of the Academy for their election:

President — H. L. Rietz, Iowa City.

Vice-president — James H. Lees, Des Moines.

Treasurer — A. O. Thomas, Iowa City.

Editor — G. H. Coleman, Iowa City.

¹ This report is filed with the Academy Secretary.

Secretary — J. C. Gilman, Ames.

A.A.A.S. Representative — H. W. Norris, Grinnell.

The retiring section chairman announced the following as elected to preside over the sections at the following meeting:

Bacteriology — B. W. Hammer, Ames.

Botany — E. W. Lindstrom, Ames.

Chemistry, general and physical — R. M. McKenzie, Fairfield.

Chemistry, organic and biological — L. C. Raiford, Iowa City.

Geology — L. W. Wood, Ames.

Mathematics — G. W. Snedecor, Ames.

Physics — A. Ellett, Iowa City.

Psychology — E. O. Finkenbinder, Cedar Falls.

Zoology — H. E. Jaques, Mt. Pleasant.

On motion the meeting adjourned.

J. C. GILMAN,
Secretary.

REPORT OF THE EXECUTIVE COMMITTEE

The Executive Committee met at 11:00 A.M., Friday, May 2, in Room 119, Home Economics Building, at Iowa State College, Ames, Iowa. Messrs. Spinney, Rietz, Walker, Culbertson, Gwynne, Chittenden, Slaght, Guthrie, and Gilman were present.

Minutes of the previous meeting were read and approved.

A research grant of \$75.00 was authorized to Professor Ben H. Peterson of the Department of Chemistry of Coe College for the purchase of special equipment for use in the study of the adsorption and coagulation of colloidal suspensions by electrolytes.

A research grant of \$50.00 was authorized to Professor L. D. Weld of the Department of Physics, Coe College, for assistance in computations in an analysis of cosmic-ray observations.

As delegates to the Fifth International Botanical Congress, R. E. Buchanan, R. I. Cratty, and W. E. Loomis of Iowa State College were named. It was provided, however, that the delegation might be enlarged by action of the committee.

The question of adequate membership dues was discussed but no action was taken.

It was the sense of the committee that the Academy encourage the scientific groups of the State to meet with the Academy at the annual meeting.

The Secretary was authorized to purchase an addressograph list for aid in circularizing the membership.

Invitations for next year's meeting were read from Iowa Wesleyan University, Mt. Pleasant, and the Chamber of Commerce of Cedar Rapids. (Drake University subsequently submitted an invitation). The committee referred the decision of determining the place of meeting to the incoming executive committee.

The meeting adjourned.

JOSEPH C. GILMAN,
Secretary.

REPORT OF THE TREASURER

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REPORT OF THE TREASURER

May 3, 1930

RECEIPTS

April 29, 1929, Balance on hand	\$ 26.04
Received from dues	495.56
Received from entrance fees	135.43
Interest on Strauss Bond	30.00
Sale of Proceedings	2.50
Refund from A.A.A.S., 50c per member	115.00
Withdrawn from Savings Account	100.00
Refund for paying charge on checks93
Total	\$ 906.06

DISBURSEMENTS

To Doctor Pammel, expenses as chairman of Conservation Com. --\$	7.25
Refunds to members who overpaid	4.43
One thousand programs for Fairfield meeting	51.00
Postage and supplies for P. S. Helmick, See 1928-29	29.17
Stenog. and clerical help, express postage, Treasurer	66.31
Refund, expenses of trip to Fairfield to speaker, Apr. 25, 1929	8.41
Grant to Dr. Morehouse, from A.A.A.S. research fund	100.00
One thousand letter heads, Tribune Publ. Co., Ames	8.25
Envelopes, supplies, clerical help to Secretary	59.84
Postage — Editor — Dr. Coleman	3.50
For cashing out-of-town checks93
Honorarium, Nellie E. Newman, distrib. volumes	25.00
Honorarium, Balance to Dr. Lees — Editor	8.34
Honorarium, Dr. Coleman, Editor	50.00
Honorarium, Dr. Gilman, Secretary	50.00
Honorarium, Dr. Thomas, Treasurer	50.00
To Savings Account, January 10, 1930	381.58
Balance in Bank	2.05
Total	\$ 906.06

ASSETS

Assets of the Academy at this date are as follows:

One Strauss Bond	\$ 500.00
Accrued interest on bond on even date herewith	15.00
In Savings account @ 4%	1400.00
Accrued interest on Savings at this date	18.66
Balance in Bank, May 1, 1930	\$ 2.05

Total **\$1935.71**

There are liabilities in form of current bills amounting to about one Hundred twenty-five or one Hundred fifty dollars. There are dues collectible to amount of \$500 to \$600 at present and a considerable amount incoming from new members.

The A.A.A.S. fund is absorbed in the above. A separate report on A.A.A.S. receipts is given below.

As a matter of interest comparison shows that eleven years ago this date the Academy had a checking account of \$31.58 with no other assets than its dues and entrance fees.

REFUNDS AND ALLOWANCES FROM A. A. A. S.

Mar. 23, 1926	\$ 93.50
Oct. 21, 1926	6.50
May 5, 1927	104.00
Oct. 11, 1927	6.00

May 26, 1928 -----	108.50
Oct. 12, 1928 -----	3.50
May, 1929 -----	0.00
Oct. 25, 1929 -----	115.00

\$ 437.00

ALLOWANCES

Apr. 12, 1928, D. W. Morehouse -----	\$ 200.00
July 10, 1928, Thos. C. Poulter -----	80.00
Nov. 18, 1929, D. W. Morehouse -----	100.00

\$ 380.00

Balance, May 1, 1930 ----- \$ 57.00

Respectfully submitted,

A. O. THOMAS,
Treasurer.

REPORT OF THE SECRETARY

The executive committee a year ago asked your secretary to investigate the question of academy endowments, particularly in regard to the conditions that are present among our sister academies. Therefore, a questionnaire was submitted to the secretaries of the twenty-two affiliated with the American Association for the Advancement of Science and a summarization of their answers shall comprise the substance of this report.

Of the twenty-two affiliated academies questioned, answers were received from all but two, New Hampshire and North Dakota. Of those replying, only two report that they receive State support — Indiana and Wisconsin. Both receive \$1500 with which, in the case of the latter at least, they print their proceedings. Five other academies receive indirect support for the publication of their proceedings through some state institution. Kansas, for example, sells its proceedings to a state school to use for exchange purposes. The Graduate School of the University of Michigan prints the "Papers of the Michigan Academy." The Journal of the Elisha Mitchell Scientific Society contributes to the printing of the proceedings of the North Carolina Academy, while in Oklahoma and West Virginia, the state universities print the proceedings as bulletins from those institutions.

In Iowa and Illinois, the state pays for the printing of the proceedings which the secretary of the Illinois Academy estimates to be approximately \$1000 per annum. As you all are aware, our proceedings are limited to four hundred pages. The Academy in Virginia has asked their legislature for \$1000 for special printing (not proceedings) and it is in their budget but had not been granted at the time the questionnaire was answered. Thus, we see that ten, or approximately half, of the academies are supported to a very limited degree by the state funds.

In regard to endowment, the academies are not as well off, only seven reporting endowments, and these very inadequate for any extended program of use. Virginia has the largest \$9100, Maryland is second with \$3000, Wisconsin third with \$2500. Illinois, Indiana, Kentucky, Ohio, also reported endowments without stating their amounts. The way these endowments were acquired seem to be limited to two: gifts and life memberships. Whether an academy will receive gifts for endowment purposes rests largely

with the personnel. Apparently, it is a matter of solicitation by the proper persons. Thus the endowment of the Virginia academy is largely the work of one man, President Horsly. Where the academy is dependent on life memberships, the returns are small and slow.

Now as to the possibilities that may be available to the Iowa Academy for raising any appreciable amount for an endowment. The most available place for securing money as you all are well aware (previous secretaries have told you often) is the grant of the American Association for the Advancement of Science of fifty cents for each member of the academy who is also a member of the Association. This, at present, amounts to about \$100 a year for only 235 of our 612 members were members of both societies at the last counting. This amount can be increased in two ways: by increasing the membership in the Association by Academy members and the converse, increase of the Academy membership among the Association members. In the last list of the Association membership in Iowa of the 370 names, one-third or 135 were not members of the Academy. If we could collect from both these sources, there would be available for research from the Academy some \$350 or the interest at 5% on \$7000. Of course, the ideal cannot be reached for many reasons but certainly more than 38 per cent of our membership should be sufficiently interested in science to maintain membership in the Association and everyone of the 135 members of the Association should be sufficiently interested in the local development of scientific interests to become members of the Academy. I suggest that the membership committee may well take these facts into account in gaining new members.

A second way of increasing the endowment is to increase the life memberships. At present we have but 25 of these. They do not cost much —

ACADEMY	STATE SUPPORT	ENDOWMENT	SOURCE OF ENDOWMENT	DUES	
				ANNUAL	LIFE
Alabama	—	—			
Colorado	—	—			
Wyoming	—	—		\$2.00	
Georgia	—	—			
Illinois	+ (\$1000)	+	Life members	\$1.00	\$50.00
Indiana	\$1500	+	Gifts and members	\$1.00	
Iowa	+*	—		\$1.00	\$15.00
Kansas	—	—		\$1.00	
Kentucky	—	+	Life members		
Maryland	—	\$3000	Solicitation		
Michigan	—	—		\$1.00	\$25.00
Nebraska	—	—		\$1.00	
New Hampshire	—	—			
New Orleans	—	—			
North Carolina	—	—		\$2.00	
North Dakota	—	—			
Ohio	—	+	Gifts		
Oklahoma	—	—			
Pennsylvania	—	—		\$1.00	
South Carolina	—	—			
Tennessee	—	—		\$2.00	
Virginia	—**	\$9100	Gifts	\$2.00	
West Virginia	—	—			
Wisconsin	\$1500*	\$2500	Life members		

* State prints proceedings.

** Has \$1000 in budget for special printing (not yet passed).

\$15, a sum which is less than the principal that would yield a dollar a year at six per cent, and it would save much time and energy in keeping your membership in good standing.

Finally, the quickest means of gaining an efficient endowment is to solicit and obtain gifts from men of means who are interested in the furtherance of science. The value of research and scientific endeavor is now firmly established. Big business is back of it and at no time has science had the popular support that it has today. The question is largely a matter of learning where the money is and asking for it. I am sure the use to which it will be put can be plentifully justified. However, such a campaign of asking cannot be made the job of the standing committee of the academy, it must be carried out by a special committee carefully selected as to fitness for the work in hand. I am sure we have many such members who would make it their business to raise an endowment fund could their enthusiasm be aroused for the purpose. The carrying out of such a project must rest with the membership. I am merely pointing out the possibilities.

Respectfully submitted,

JOSEPH C. GILMAN,
Secretary.

REPORT OF THE COMMITTEE ON THE SECRETARY'S REPORT

The committee on the secretary's report moves that the report of the Secretary be accepted — and we further

Recommend, that part of the balance in the Treasury, the amount to be determined by the Executive Committee, be set aside as the nucleus of an Endowment Fund. We further recommend the appointment of a special committee to consider means of increasing the Endowment Fund.

G. W. MARTIN
C. J. LAPP

REPORT OF THE EDITOR

Mr. President and Members of the Iowa Academy of Science:

The greater part of the material for volume thirty six of the Proceedings was sent to me upon my return to the University last September. This was turned over to The Torch Press, our present printer, as soon after that as possible. At the present time there is a small portion of the galley proof which has not yet been received. The remainder has been sent to the authors for correction, reassembled after correction and returned to the printer.

Much of the delay in publication of the Proceedings is caused by our failure to send the material to the printer early in the summer. It is my understanding that if The Torch Press could have this in June it could be printed during the summer, which is not a busy season for them. In the present contract made by the state there is no requirement that the work be done within any definitely specified time, with the result that the Academy work is delayed when other and more profitable work comes in. If, however, the printing could be done in the summer months I believe there would be no undue delay.

Action has been taken by the Academy in recent years which if followed by all concerned would make this possible. It might not be out of place to emphasize the following points again. Papers which are presented for publication are to be left with the section chairman at the time of the meeting. A copy of committee reports should be left with the Secretary. In the preparation of manuscript the "Instructions to Authors" which are sent to all members before each meeting should be followed as closely as possible.

According to recent action by the Academy the section chairmen are expected to send the material for publication to the editor not later than June 20th, following the meeting. It is further requested, and this was included in the printed program, that authors include on the manuscript or attached to it the address to which proof shall be sent. If the summer address is different this should also be given. It would be of great assistance to the editor if section chairmen would see that all manuscripts are prepared according to "Instructions to Authors" before they send them to the editor.

In closing I wish to express my appreciation to the Section Chairmen and officers of the Academy for their co-operation and assistance in the preparation of this volume of the Proceedings. GEORGE H. COLEMAN

REPORT OF THE COMMITTEE ON HISTORY OF THE ACADEMY

Your committee wish to report that they have received a copy of the history prepared by Doctor Swisher of the Historical Society of Iowa. We feel that this report has been well prepared, although probably further study of the original records will yield other material of value. With this in mind the records will probably be submitted to Doctor Swisher for further study. We are also asking for comments by members of the Academy.

LEES, KELLY, MACBRIDE, ALMY,
Committee.

REPORT OF COMMITTEE ON BIOLOGICAL SURVEY

It gives us pleasure to report that we secured an appropriation of Six Thousand Dollars (\$6,000.00) for the biennium, and that through the Biological Survey, there will be published THE HONEY PLANTS OF IOWA, the first of a series of publications of the Biological Survey. The work on HONEY PLANTS has been in process of preparation for a great many years, and much valuable data has been obtained.

In order to secure further appropriations it will be necessary to appear before the Committee of the Budget. We hope this appropriation may be continued.

It has not been necessary to have meetings since the legislature met a year ago. The work has been done largely through correspondence with the other members of the committee.

L. H. PAMMEL,
Chairman.

Members of Committee:

H. S. CONARD,
H. M. KELLY,
L. S. ROSS,
F. A. STROMSTEN.

REPORT OF COMMITTEE ON CONSERVATION

To the Iowa Academy of Science:

Probably because of the change in the Secretary's office no notice of appointment was received by the chairman or members of your Committee on Conservation until the printed program was received a few days ago. Consequently nothing was done by your committee during the year, and no part of the appropriation of \$50.00 for the past year was expended. This report must therefore consist of recommendations for the future rather than a record of work achieved during the year.

While we recognize the important service which is rendered by our Academy in fostering closer relations between scientific workers in the state, and in giving encouragement to younger men and women who are entering the scientific field, we must not forget that, both as members of an organization receiving some support from the state and as citizens, we owe to the state a share of that experience and information which have been acquired in the course of our scientific investigations where these are related to our state problems.

The number and scope of public problems calling for scientific evidence or solution is constantly increasing. Whether they are concerned with economic, educational or recreational values, their complete ultimate solution will depend upon material evidence derived from *all* the branches of science; and not one of the greater problems of this type will be fully solved on the basis of the partial evidence derived from only one branch thereof.

Practically all these problems involve the question of the conservation of our natural resources, and they may be grouped under two, or more properly three, general but closely related heads, namely, the conservation and control of our waters; and the conservation and control of our floras; — both, being involved in the conservation of animal life, and related to the conservation of our soils.

Among water-conservation problems may be included flood-control, drainage and water-pollution; under the head of plant conservation may be noted reforestation, the weed-problem, the preservation of wild flowers, and the conservation and introduction of plants in our state parks; and the conservation of our native fauna calls for closer scientific and economic study of our birds, mammals and other animals.

These are problems of immediate concern to the state, and in some cases to the nation, and their solution should be based upon full and accurate information gathered from every possible source.

That proper attention may be directed to these problems your Committee recommends that it be authorized and directed to take the following steps:

1. To memorialize the President and the Congress of the United States to make provision to the end that in the investigation and execution of all flood and stream control projects the biological as well as the physical phases of the problems involved shall receive due attention under competent direction.

2. To make effort through education and legislation to stop the pollution of our waters in the interest of public health, and to the end that the wild life of our waters may be conserved.

3. To take steps to have the drainage laws of the state so modified that

hereafter no greater drainage project shall be undertaken without due consideration of all the possible dangers as well as benefits to be derived from it, and that public as well as private interests shall be considered in connection with each project. Here again, biological as well as physical evidence should be considered.

4. To carry on a more intensive educational campaign, to be followed by necessary legislation, through our schools and the public press in order that our people may be acquainted not only with the economic value of the products of our forests, but that they may understand more fully the relation of tree-planting and tree-conservation to erosion, flood-control, conservation of soil and atmospheric water, road-side planting, conservation of birds and other animals, etc.

It is recommended that special encouragement be given to the Extension Division and the Department of Forestry of the Iowa State College in their efforts to bring to the people of the state an understanding of the methods and purposes of reforestation, and that our higher schools, and interested organizations generally, be urged to include the subject of conservation in their program.

5. To assist in every possible way in the campaign for the conservation of our native flora, fauna and other attractive or scientifically interesting features, not only in our state parks, but throughout the state. Educational work in this field should be especially encouraged in our grade schools, and children should be taught that observation and appreciation of our natural outdoor features are far more interesting than their destruction.

6. To prepare and present to the next session of the State Legislature such amendments to the weed law as will modify the list of unlawful weeds chiefly by the addition of a number of noxious forms, and make possible the preservation of the prairie-remnant strips along the highways and railways of the state.

7. To give support and encouragement to the increase in appropriations for the State Board of Conservation which would permit the free purchase of additional state parks and wild life sanctuaries without the demand for local financial support, which has become the custom.

8. To submit a memorial to the State Board of Conservation setting out the objections to the promiscuous planting of trees and other plants (whether native or introduced) in our State parks, and the need of preserving as much of them as possible in a truly natural state.

That the Committee may properly carry out these instructions it is recommended that an appropriation of not to exceed \$100 be placed at its disposal.

While these recommendations are put in the form of directions to your Committee, it is hoped that each member of the Academy will consider himself an *ex-officio* active member of the Committee in the furtherance of this program.

Respectfully submitted,

The Committee on Conservation

B. SHIMEK, *Chairman*.

C. R. KEYES,

ELLISSON ORR,

RESOLUTION ON THE BALD EAGLE

WHEREAS, the territorial government of Alaska has placed a bounty on the native Bald Eagle, our National Emblem,

WHEREAS, this bounty has been in force since 1917 causing the destruction of approximately 50,000 eagles (41,812 up to September, 1926),

WHEREAS, further destruction is likely to endanger the continued existence of the species, and

WHEREAS, Senator Norbeck, of South Dakota, and Congressman Andresen, of Minnesota, have introduced bills in Congress (S. 2908 and H. R. 7994) giving federal protection to the Bald Eagle, therefore be it

RESOLVED, by the Iowa Academy of Science, in session at Ames, Iowa, on May 3, 1930, that such protection should be given to the Bald Eagle as is provided by the Norbeck-Andresen Bill (S. 2908 and H. R. 7994).

The above resolution was adopted by the Zoology Section, May 2, 1930, and was submitted to the Committee on Conservation for presentation to the general session of the Academy.

Your committee recommends the adoption of the resolution.

Respectfully submitted,

Committee on Conservation:

B. SHIMEK, *Chairman.*

T. C. STEPHENS

H. E. JAQUES

REPORT OF THE RESOLUTIONS COMMITTEE

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

2. We extend to President and Mrs. Hughes and to the faculty of Iowa State College, our appreciation of the accommodation and the opportunities which they have so amply provided in this forty-fourth annual meeting.

3. We express to Dean Fisher of the Home Economics Division of Iowa State College our thanks for the use of Catherine MacKay Auditorium.

4. We express to President Spinney, to Secretary Gilman, and to Dr. Bakke and the other members of the Local Committee our appreciation for the efficient services they have rendered in our behalf.

C. W. WESTER

P. S. HELMICK

REPORT OF THE MEMBERSHIP COMMITTEE

ASSOCIATES

Arthur Zuhn, Mt. Pleasant; Scott N. Reger, Iowa City; J. B. Phillipson, Ames; H. W. Shell, Decorah; H. E. Murphy, Cedar Falls; J. F. Goggin, Davenport; Louis A. Rohret, Davenport; L. F. Marcy, Fairfield; E. R. McGovran, Ames; Florence Catlin, Ames; D. L. Holl, Ames; Marvin Cobb, Des Moines; W. L. Yeager, Sioux City; Chas. S. Cobb, Sioux City; Rolland M. Zabel, Iowa City; Winfield Scott, Cedar Falls; Luella Jensen, Harlan; Etta G. Victor, Villisca; Florence Smith, Grinnell; Harold M. Skeels, Iowa City; Lee O. Yoder, Des Moines; Mabel Gauger, Cedar Falls;

Florentine Martin, Hawkeye; W. G. Osborn, Keosauqua; J. F. Robertson, Ames; S. M. Dietz, Ames; C. H. McCloy, Iowa City; Harlow B. Mills, Ames; E. N. Hansen, Ames; Harold Knight, Mt. Pleasant; Margaret E. McFall, Ames; Robert R. Vogt, Iowa City; Edith Jay, Grinnell; Justin Leonard, Grinnell; Duncan McKenzie, Fairfield; James L. Lambert, Iowa City; A. E. Brandt, Ames; E. W. Anderson, Ames; Marian E. Daniells, Ames; B. J. Firkins, Ames; Carl Benz, Mt. Pleasant; John B. Peterson, Ames; Alfred J. Englehorn, Ames; Guy E. McLean, Mt. Pleasant; C. Y. Cannon, Ames; Gerrit M. Wissink, Burlington; Russel D. Miller, Ames; Ralph L. van Peurse, Sheldon; C. S. Reddy, Ames; Gertrude Cox, Ames; John R. Watt, Ames; Arthur L. Hershey, Ames; H. C. Murphy, Ames; J. E. Sass, Ames; Ray Miller, Iowa City; Donald B. Gould, Iowa City; Martin F. Fritz, Ames, and Owen Smith, Mt. Pleasant. Total — 53.

FELLOWS

E. R. Smith, Ames; L. V. Crum, Ames; J. A. Wilkinson, Ames; Robert L. King, Iowa City; J. H. Bodine, Iowa City; Emil Witschi, Iowa City; H. D. Hughes, Ames; J. J. L. Hinrichsen, Ames; G. W. Snedecor, Ames; Harold H. Anderson, Iowa City; Ralph Ojemann, Iowa City, and Orvis C. Irwin, Iowa City. Total 12.

TRANSFERS *from Associates to Fellows.*

F. B. Smith, Ames; A. W. Meyer, Cedar Rapids; Philip B. King, Iowa City; David T. Jones, Vinton; G. Marshall Kay, N. Y. City; Louisa Sargent, Grinnell; Harold M. Williams, Iowa City, and Waldo S. Glock, Columbus, Ohio. Total 8.

Life Member

Joseph C. Gilman, Ames.

MEMBERS AND VISITORS IN ATTENDANCE

Adams, Robert P., Iowa City; Aikman, J. M., Ames; Allen, Edward S., Ames; Almy, Frank F., Grinnell; Anderson, Bertil G., Iowa City; Anderson, E. W., Ames; Anderson, John E., Cedar Rapids; Baker, J. Allen, Indianola; Baker, Weldon, Sioux City; Bakke, A. L., Ames; Barlow, Edward, Iowa City; Beall, Ross H., Iowa City; Beane, B. H., LeGrand; Becker, E. R., Ames; Begeman, L., Cedar Falls; Bender, Paul, Iowa City; Benedict, A. A., Ames; Benz, Carl A., Mount Pleasant; Berg, Clarence P., Iowa City; Bissey, Russell, Ames; Blackman, L. E., Fayette; Blagg, Miss Betty, Grinnell; Bodine, J. H., Iowa City; Bowie, R. M., Ames; Brandt, A. E., Ames; Brown, F. E., Ames; Brown, P. E., Ames; Buchanan, R. E., Ames; Buchholz, W. F., Ames; Burroughs, R. D., Ames; Butler, L. W., Ames; Cable, Emmett J., Cedar Falls; Cameron, Harriet C., Iowa City; Campbell, H. G., Sioux City; Carpenter, Erwin L., Mount Vernon; Carr, A. B., Indianola; Carter, Charles, Fairfield; Catlin, Florence A., Ames; Cavanagh, Lucy M., Iowa City; Chittenden, Earl, Iowa City; Clark, Anabel E., Mount Pleasant; Clark, Norman A., Ames; Clark, O. R., Cedar Falls; Cobb, Charles S., Sioux City; Cobb, Marvin, Des Moines; Coffin, LeRoy M., Cedar Rapids; Coleman, George H., Iowa City; Collier, R. M., University Park, Iowa; Collins, E. Holbert, Fairfield; Collins, William B., Dubuque; Colpitts, Julia, Ames; Conard, Henry S., Grinnell; Conard,

Rebecca, Grinnell; Conkwright, N. B., Iowa City; Coover, W. F., Ames; Copeland, Paul L., Iowa City; Cornog, Jacob, Iowa City; Coss, James A., Sioux City; Cratty, R. I., Ames; Crum, L. V., Ames; Crumbaugh, H., Mt. Vernon; Crump, C. C., St. Paul, Minn.; Culbertson, J. B., Mt. Vernon; Currier, Richard E., Iowa City; Davidson, Isabel, Cedar Falls; Davis, Glen N., Ames; Day, Harry G., Chariton; Dedrick, Dallas S., Iowa City; Dietz, S. M., Ames; Douglas, Donald, Grinnell; Douglass, L. C., Grinnell; Doty, H. S., Indianola; Drake, C. J. Ames; Dunham, Harold Grinnell, Grinnell; Dunnam, E. W., Ames; Earl, James M., Iowa City; Eisele, Harold, Ames; Eisen, John B., Grinnell; Eldridge, J. A., Iowa City; Ellett, A., Iowa City; Ellingson, Herman E., Decorah; Essex, Horace W., Mt. Pleasant; Evans, G. Harlowe, University Park; Evans, Mrs. G. Harlowe, University Park; Eversole, W. G., Iowa City; Finkenbinder, E. O., Cedar Falls; Fischer, Carl H., Iowa City; Fitzpatrick, F. L., Cedar Rapids; Frazier, C. V., Des Moines; Fulmer, E. I., Ames; Gaessler, W. G., Ames; Geigir, C. H., Cedar Rapids; Gilman, Henry, Ames; Gilman, Joseph C., Ames; Goehring, Mina, Iowa City; Goggin, Dr. J. F., Davenport; Gorham, Arthur, Winterset; Gorham, Mrs. Arthur, Winterset; Gould, Don B., Iowa City; Gouwens, Cornelius, Ames; Graber, M. E., Sioux City; Greenwald, D. U., Grinnell; Groves, Walter L., New Sharon; Guthrie, H. E., Ames; Guthrie, J. E., Ames; Gwynne, C. S., Ames; Haldeman, Harry H., Indianola; Harrington, Harold, Iowa City; Harvey, Clifford E., Iowa City; Hayden, Ada, Ames; Hecker, F. A., Ottumwa; Hecker, Mrs. F. A., Ottumwa; Helmick, P. S., Des Moines; Hemphill, Martha, Grinnell; Henderson, Milton, Indianola; Herr, Gertrude A., Ames; Hersey, S. F., Cedar Falls; Hershey, A. L., Ames; Hershberger, A. R., Le Mars; Hettlinger, Edith, Grinnell; Hogg, Kathryn, Grinnell; Holl, Dio L., Ames; Hookom, Dow W., Mt. Pleasant; Hooper, Mildred A., Iowa City; Howard Dale, Cedar Rapids, Iowa; Hoyem, Albert G., Iowa City; Hughes, H. D., Ames; Hughes, R. M., Ames; Husband, Ivy C., Iowa City; Ingalls, E. E., Mt. Pleasant; Irwin, Orvis C., Iowa City; Iversen, Ida E., Mason City; Jacobs, Tom L., Mt. Vernon; Jaques, H. E., Mt. Pleasant; Jay, Edith, Grinnell; Jeep, H. A., Iowa City; Jenkins, John G., Ames; Jensen, Luella, Harlan; Johns, M. Rae, Davenport; Jordahl, O. M., Decorah; Kadesch, W. H., Cedar Falls; Kelly, Harry M., Mt. Vernon; Kime, D. O., Le Mars; King, C. M., Ames; King, Robert L., Iowa City; Kinney, C. N., Des Moines; Klingaman, O. E., Davenport; Ray, Kenneth W., Iowa City; Knight, Harold R., Albia; Knight, H. H., Ames; Knight, Nicholas, Mt. Vernon; Kunerth, William, Ames; Kubichek, Cedar Rapids; Lantz, C. W., Cedar Falls; Lapp, C. J., Iowa City; Laudon, Lowell R., Iowa City; Layton, D. V., Ames; Lels, James H., Des Moines; Len, Iliff, Fairfield; Leonard, Justin W., Grinnell; Levine, Max, Ames; Linden, Forrest E., Iowa City; Lindstrom, E. W., Ames; Lockhart, E. G., Des Moines; Loehwing, W. F., Iowa City; Loomis, W. E., Ames; Luker, James W., Cedar Falls; Lummons, C. W., Indianola; Lyon, Irma, Salem; McBryde, Dr. C. N., Ames; McComb, Harold, Mt. Pleasant; McFall, Margaret E., Ames; McGaw, F. M., Mt. Vernon; McKelvey, J. V., Ames; McKelvey, M. M., Ames; McKenzie, R. Monroe, Fairfield; McLaughlin, Laura, Ames; Malmstrom, Homer E., Iowa City; Martin, Florentin, Hawkeye; Martin, G. W., Iowa City; Martin, J. N., Ames; Mattill, H. A., Iowa City; Mattill, Mrs.

H. A., Iowa City; Mehlin, Theodore G., Des Moines; Melhus, I. E., Ames; Meyer, Alfred W., Cedar Rapids; Miller, Russel G., Ames; Molamund, Dr. Wm., Iowa City; Molamund, Mrs. Wm., Iowa City; Moots, Elmer E., Mt. Vernon; Moots, Mrs. Elmer E., Mt. Vernon; Morehouse, D. W., Des Moines; Marcy, Lawson F., Fairfield; Morgan, C. L., Iowa City; Morris, R. H., Des Moines; Maury, James, C., Iowa City; Mullin, Catherine, Iowa City; Murphy, H. C., Ames; Murphy, H. E., Cedar Falls; Nelson, V. E., Ames; Nelson, Roy A., Mt. Vernon; Neff, J. F., Des Moines; Neuman, E. W., Iowa City; Newell, Walter S., Cedar Rapids; Nichols, Florence W., Ames; Nielsen, Ernest, Mt. Vernon; Nissen, Esther J., Cedar Falls; Norris, H. W., Grinnell; Norton, Frederick Henry, Grinnell; Olliver, Arthur, Iowa City; Otto, Gretchen, Iowa City; Overholt, W. W., Ames; Pammel, L. H., Ames; Parish, Dr. Jessie A., Cedar Falls; Parks, Pete, Mt. Pleasant; Peterson, Ben H., Cedar Rapids; Peters, Paul E., Iowa City; Phillips, D. P., Cedar Falls; Philipson, J. B., Ames; Plagge, H. J., Ames; Plum, William B., Sioux City; Pohlman, G. Gordon; Popoff, Stephen, Iowa City; Poulter, Thos. C., Mt. Pleasant; Raiford, L. Chas, Iowa City; Rath, H. Earl, Cedar Falls; Ray, F. E., Grinnell; Read, O. B., Cedar Falls; Reed, Charles D., Des Moines; Reed, George H., Iowa City; Reger, Scott N., Iowa City; Reilly, John F., Iowa City; Rider, Arthur J., Des Moines; Rietz, H. L., Iowa City; Robbie, Alex C., Cedar Rapids; Roberts, Byron D., Fairfield; Roberts, Dr. F. L., Ames; Roberts, Maria M., Ames; Robertis, Mary Price, Ames; Robertson, J. F., Ames; Robinson, F. P., Iowa City; Rockenbach, Etelka, Mt. Pleasant; Rogers, Elizabeth, Mt. Pleasant; Rohret, Louis A., Davenport; Ross, L. S., Des Moines; Ruckmick, Christian A., Iowa City; Russell, John W., Numa; Sargent, Louisa, Grinnell; Sass, J. E., Ames; Savage, D. F., Mt. Pleasant; Scott, Winfield, Cedar Falls; Shawhan, Fae McClurey, Des Moines; Sheel, H. W., Decorah; Shinek, B., Iowa City; Shinek, Mrs. B., Iowa City; Skinner, Laila, Iowa City; Slaght, W. E., Mt. Vernon; Smith, E. R., Ames; Smith, F. B., Ames; Smith, Florence D., Grinnell; Smith, Frederick F., Storm Lake; Smith, Howard O., Ames; Snedecor, G. W., Ames; Sylvester, Reuel H., Des Moines; Smith, Dr. H. Gregg, Iowa City; Spangler, Ross D., Iowa City; Spinney, L. B., Ames; Springer, C. E., Ames; Stanley, Alfred R., Oskaloosa; Stanley, F. C., Oskaloosa; Stephens, T. C., Sioux City; Stewart, G. E., Iowa City; Stiles, Harold, Ames; Stromsten, Frank A., Iowa City; Sucher, Mabel E., Mason City; Suit, R. F., Ames; Summers, E. M., Ames; Tiffin, Joseph, Iowa City; Tseng, Raymond, Grinnell; Turner, J. S., Ames; Tyndall, E. P. T., Iowa City; Taylor, M. W., Ames; Thomas, A. O., Iowa City; Thompson, Essie Mae, Mt. Vernon; Thompson, Geo. E., Ames; Thompson, L. G., Ames; Vestal, Edgar F., Ames; Waldbauer, Louis, Iowa City; Walker, R. H., Ames; Ward, Lewis E., Iowa City; Watson, E. E., Cedar Falls; Watt, John R., Ames; Wattawa, Virginia, Cedar Falls; Welch, Jessie L., Ames; Weld, L. V., Cedar Rapids; Wellman, Beth, Iowa City; Wells, Charles, Indianola; Werkman, C. H., Ames; Wester, C. W., Cedar Falls; White, Anne Elizabeth, Ames; White, Carl M., Iowa City; White, Mrs. Carl M., Iowa City; Wieters, A. H., Des Moines; Wilkins, F. S., Ames; Willard, Ruth, Grinnell; Williford, George, Mt. Pleasant; Willson, L. H., Ames; Wilson, Guy West, Oskaloosa; Wilson, Robert O., Mt. Pleasant; Wissink, G. M., Burlington; Witschi, Emil, Iowa City; Woffe,

Delbert E., Mt. Pleasant; Wolden, B. O., Estherville; Wolfe, Robert, Fairfield; Wood, L. W., Ames; Woodrow, Jay W., Ames; Woods, Roscoe, Iowa City; Wylie, R. B., Iowa City; Yager, C. B., Iowa City; Yeager, W. C., Sioux City; Yoder, L. O., Des Moines; Young, Arthur W., Ames; Yu, T. F., Ames; Zabel, Rolland M., Iowa City; Zemen, Dr. Karl, Iowa City; Zorbaugh, Grace S. M., Ames; Zuhn, Arthur A., Mt. Pleasant; Vance, Thomas F., Ames; VanPeurse, Ralph L., Sheldon, and Victor, Etta G., Villisca. Total 330.