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## Proceedings of the Fourteenth Annual Session of the Iowa Academy of Sciences: Staff & Committee Reports

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PROCEEDINGS  
OF THE  
FOURTEENTH ANNUAL SESSION  
OF THE  
IOWA ACADEMY OF SCIENCES

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The fourteenth annual session of the Iowa Academy of Sciences was held in the state horticultural rooms at the capitol building in Des Moines, December 26, 27 and 28, 1899. In business sessions the following matters of general interest were passed upon.

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REPORT OF THE SECRETARY-TREASURER.

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

I have the pleasure of presenting the following report upon the work of the Academy for the year 1899. Within that period the sixth volume of the proceedings has been printed and published as usual. Most of the labor incident to this in the way of proof reading was performed by Mr. S. W. Beyer in my absence. The secretary and the Academy are under obligations to Mr. Beyer for his work in this connection and the excellent appearance of the volume. Seven additions have been made to the list of fellows, three by election of members to that position and four by the election of men outside the Academy. Ten new members have been elected and have qualified. One fellow and two members have resigned and one fellow, Mr. Robert Combs, one member, Mr. Carl Schlabach, and one corresponding member, Prof. A. A. Crozier, have been lost by death. I would recommend that a committee be appointed to prepare suitable memorials. One fellow, Prof. A. H. Conrad, and three members, Messrs. Hume and Read and Miss Stewart, having removed from the state, I would recommend that they be made corresponding members.

The following have failed to keep the secretary informed of their address, with the result that letters and packages addressed to them are returned to this office:

Eliza Owens, corresponding member.

H. W. Parker, corresponding member.

Emma Serrine, corresponding member.

C. B. Weaver, member.

E. H. Gifford, member.

F. H. Baldwin, member.

A. Estella Paddock, member.

J. A. Mortland, member.

W. D. Barnes, member.

I refer these names to the Academy for action.

Early this year the books and papers coming to the Academy were transferred to the State Library and an arrangement made whereby they will hereafter be catalogued with the remainder of the books of that library. A separate list will, however, be kept, so that it will always be possible to learn just what books have been obtained through the efforts of the Academy. All this material will be suitably bound and cared for. It will at all times be accessible to the members of the Academy, either for use in the building or elsewhere, and in addition a large number of scientific books not previously classified so as to be subject to withdrawal can be borrowed by members of the Academy under very simple restrictions. By this arrangement the Academy is freed from all expense in connection with its library and the members receive important borrowing privileges. The State Library is in return freed from the expense of keeping up several important and expensive sets. The Academy is under obligations to the librarian, Mr. Johnson Brigham, and the trustees of the State Library for the liberality of these terms of exchange.

In publishing the proceedings of the last meeting a special edition printed on enameled paper and suitably bound in cloth was printed for members of the Academy and for the principal exchanges. The extra expense involved was small and it is hoped that the move will meet with the approval of the members.

After correspondence with the members of the executive committee, and such other members of the Academy as could be readily reached, the secretary has arranged for an evening lecture in connection with the meeting of this year. It is hoped that this lecture may become an annual affair and be one of the attractions of the winter meetings.

The expenses of the year have been somewhat heavier than heretofore, both as a result of the extra printing and binding and the bill for illustrations which was held over from the last year. To offset this a considerable amount of back dues has been collected. There are now \$22 still outstanding in dues, and of this amount \$5 is due from those whose address is lost and will probably not be collectible. A number of members who ordered extra reprints have not yet settled for them, and if they fail to do so the Academy will, I presume, be held responsible for the amounts.

FINANCIAL STATEMENT.

RECEIPTS.

Dues.....	\$	76 00
Back dues.....		29 00
Fellowship fees.....		12.00
Membership fees.....		9 00
Sale of proceedings.....		6 70
Illustrations.....		10.45
Balance.....		69 52
Total.....	\$	212.67

## IOWA ACADEMY OF SCIENCES.

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## DISBURSEMENTS.

Illustrations .....	\$	85.60
Printing and binding .....		50.03
Postage .....		10.00
Express charges .....		9 63
Wrapping books .....		3.25
Typewriting .....		3.50
Receipt books .....		.20
<b>Total</b> .....	\$	<b>162 21</b>
<b>Net balance</b> .....		<b>50.46</b>

Very respectfully,

H. FOSTER BAIN,  
Secretary-Treasurer.

Des Moines, December 23, 1899.

The following fellows and members were elected:

## FELLOWS.

John Craig, of Ames, professor of horticulture at the Iowa State college; O. T. Dennison, of Mason City, president Mason City Brick and Tile company; J. T. Keppel, of Fayette, professor of physics in the Upper Iowa university; Dr. Otto Kuntze, of Iowa City; Haven Metcalf, of Tabor, professor of biology; Benjamin L. Miller, of Oskaloosa, professor of geology in Penn college.

## ASSOCIATE MEMBERS.

J. R. Allen, Ames; Esther Beatty, Ames; J. C. Brown, Ames; Dr. I. C. Brownlie, Ames; F. S. Butler, Des Moines; H. N. Grettenburg, Ames; Dr. W. E. Harriman, Ames; Alice Hess, Ames; E. R. Hodson, Ames; Charlotte M. King, Ames; E. E. Little, Ames; Dr. W. D. Lummis, Des Moines; Prof. J. H. T. Main, Grinnell; J W Radebaugh, Indianola; Dr. J. J. Repp, Ames; Prof. A. S. Skinner, Fayette; Grace Troutner, Des Moines; Harriet Vandivert, Ames; Frank A. Wilder, Des Moines.

## CORRESPONDING MEMBERS.

R. D. Salisbury, of Chicago, professor of geology in the University of Chicago. By transfer, Mr. Wilmon Newell, of Wooster, Ohio, assistant entomologist in the Ohio experiment station.

Mr. Wesley Greene, secretary of the state horticultural society, was elected a member with dues remitted in recognition of his courtesy in furnishing a hall for the meeting.

The nominating committee reported the following officers for the ensuing year:

*President*.—W. H. Norton.

*First Vice-President*.—Bruce Flnk.

*Second Vice-President*.—A. A. Veblen.

*Secretary*.—S. W. Beyer.

*Treasurer*.—J. B. Weems.

*Elective Members of the Executive Committee*.—A. Marston, J. R. Sage and B. Shimek.

Messrs. A. Marston, M. Ricker and L. S. Ross were elected to fill the vacancies in the Council.

The resignation of Prof. L. W. Andrews was received and accepted.

A vote of thanks was extended to Mr. F. A. Wilder for his services in connection with Professor Salisbury's lecture.

It was ordered that the president, president-elect and secretary constitute a sifting committee to determine what papers should be printed in the next volume of the proceedings.

The following amendment to the constitution was adopted:

Section iv to be amended by the substitution of the word "treasurer" where the word "secretary-treasurer" is used.

Section v, (a) to be amended by the substitution of the words "a secretary and a treasurer," where the words "a secretary-treasurer" are used.

Section viii to be amended by the substitution of the word "secretary" for the word "secretary-treasurer," as there used.

Section ix to be amended by the substitution of the word "secretary" for the word "secretary-treasurer," as there used.

The auditing committee offered the following report, which was received and adopted:

*To the Members of the Iowa Academy of Sciences:*

Your auditing committee would present the following report:

1. The books of the secretary-treasurer have been examined, and found correct.
2. Regarding the report of the secretary-treasurer for the year, we would suggest as follows:
  - a. Regarding deceased members, we recommend that a special committee be appointed to draft resolutions or secure brief sketches on their lives, or both, as may seem best.
  - b. Concerning members failing to pay dues, we suggest that section iv of the constitution be applied.
  - c. Regarding the deposition of the books of the Academy library in the state library, and the facilities therewith offered to members of the Academy for drawing books from the library for use, we recommend the appointment of a special committee to formulate suitable resolutions embodying the thanks of the Academy.
  - d. We also approve the recommendations of the secretary-treasurer that volumes of proceedings for members and principal exchanges be printed on enamel paper, and bound in cloth, and that the evening lecture be made a permanent feature of our meetings.

Respectfully submitted,

A. C. PAGE,  
C. C. NUTTING,  
B. FINK,  
*Committee.*

The committee on necrology was instructed to prepare sketches of deceased members of the Academy for publication in the proceedings. Upon motion the committee was made permanent and the secretary made *ex-officio* chairman.

The chairman appointed Messrs. Bain, Pammel and Page on the legislative committee.

By an unanimous vote it was ordered that bills for reprints remaining unpaid shall, if necessary, be settled by the Academy, and that persons owing for reprints be notified that if they do not pay this and any other delinquent dues promptly their names will be dropped from the Academy roster.

Votes of thanks were extended to Prof. R. D. Salisbury for for his instructive and entertaining lecture and to the retiring secretary-treasurer for the zeal and ability shown in discharging the arduous duties of his office.

The following memorial was addressed to the State Librarian:

The Iowa Academy of Sciences would hereby express its high appreciation of the valuable services to the Academy which have been rendered by the State Librarian in providing alcove room for the books and pamphlets belonging to the Academy, and also for the liberal terms on which scientific books may be obtained from the State Library for the personal use of the members.

J. L. TILTON,  
SAMUEL CALVIN,  
M. F. AREY,  
*Committee*

At the literary session the following papers were presented:

"A Chemical Study of Butter Increasers," by J. B. Weems and F. W. Bouska.

\*"A Study of the Chemical Composition of Some of the Native Grasses of the State," by J. B. Weems.

\*\*"Determination of Alcohol in Weak Liquors," by J. P. O'Donoghue.

Other products, sugar, tartaric acid, etc. Adulterants, bi-carbonate of soda. Disposal of carbonic acid gas. Distillation, precautions to fix acetic acid and other volatile acids. Determination of sp. gr. of distillate. Determination of percentage by weight.

"Klebs-Loeßler Diphtheritic Bacillus," by Gershom Hill.

\*"Notes on the Acocephali (Hemoptera, Jassidae)," by E. D. Ball.

\*"The Scydmaenidas and Pselaphidæ Occurring near Iowa City," by H. F. Wickham.

"Eleodes in Iowa," by H. F. Wickham.

\*"Forest Trees and Shrubs of Hamilton County," by H. A. Mueller.

\*Read by title and published in the Proceedings. \*\*Read by title but paper withdrawn.

\*"Addition to Lichen Distribution in the Mississippi Valley," by Bruce Fink.

\*"The Orchidaceæ of Iowa," by T. J. and M. L. F. Fitzpatrick.

\*"The Genus *Viburnum* of Iowa," by T. J. and M. L. F. Fitzpatrick.

\*"Saprophytic Basidionycetæ of Ames," by Alice Ward Hess and Harriet Vandivert.

\*"Quince Fruit with an Unusual Number of Seeds," by L. H. Pammel.

\*"The Occurrence of *Sphærotheca Mali* in Iowa," by L. H. Pammel.

\*"Preliminary Notes on Some Bacteria of the Ames Flora," by L. H. Pammel.

\*"Some *Cercospora* of Macon County, Alabama," by George Carver.

\*"The Genus *Salix* in Iowa," by Carleton R. Ball.

\*"The Distributon of Trees in Iowa," by B. Shimek.

"An Abnormal Fermentation of Bread," by C. H. Eckles.

"A Notable Ride; from Driftless Area to Iowan Drift," by Samuel Calvin.

\*"Formational Synonymy of the Coal Measures of the Western Interior Province," by Charles R. Keyes.

\*"Terraces of the Nile Valley," by Charles R. Keyes.

\*"Genesis of Normal Compound and Normal Horizontal Faulting," by Charles R. Keyes.

"Observations in the Vicinity of Wall Lake," by Frank A. Wilder. (Introduced by H. F. Bain).

"Sand Ridges of Marion County," by B. L. Miller. (Introduced by H. F. Bain).

A study of the distribution, movement and origin of certain sand ridges.

Prof. R. D. Salisbury of the University of Chicago, guest of the Academy, attended the afternoon session on Tuesday, and upon motion was invited to address the Academy upon such subject as he might choose. He spoke briefly upon the features of the edge of a drift sheet and significance of certain extra morainic gravels found in the "Driftless Area."

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\* Read by title and published in Proceedings. \*\* Read by title but paper withdrawn.