

# Proceedings of the Iowa Academy of Science

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

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## PROCEEDINGS

OF THE

## NINETEENTH ANNUAL SESSION

OF THE

# IOWA ACADEMY OF SCIENCES.

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The nineteenth annual meeting of the Iowa Academy of Sciences was held in the chemistry lecture room of Iowa College at Grinnell, April 20 and 21, 1905. In the business session the following matters of general interest were acted upon:

### REPORT OF THE SECRETARY.

#### TO THE MEMBERS OF THE IOWA ACADEMY OF SCIENCES:

At the last meeting of the Academy five names were added to the list of fellows. An equal number of fellows were transferred to the list of corresponding members, on account of their removal from the state. Nineteen associate members were elected at the last meeting, thirteen of whom have qualified. The present membership of the Academy consists of fifty-eight fellows, fifty associate members and fifty-one corresponding members; making a total of one hundred and fifty-nine.

During the past year the Academy has suffered the loss, by death, of one of the corresponding members, Mrs. N. E. Hansen of Brookings, South Dakota.

There is still need of a determined effort to increase our membership. Since the last meeting a circular letter, stating the purpose of the Academy and urging its advantages to persons interested in Science work and inviting such persons to apply for membership, has been sent to the teachers of Science in all the high schools of our state.

In our list of associate members there are a number of names which should be found among those of fellows. I would suggest that the committee on membership consider this matter, and make such recommendations with regard to transfers as they deem wise.

Notwithstanding the fact that our meeting last year was held about the middle of April, the printing of Volume XI of the Proceedings was completed before the end of August. Including the introduction and illustrations, this volume contained the full three hundred pages allowed by law, and one paper was held over on account of lack of space.

One serious cause of delay in the printing of our report is the tardiness with which the papers that are presented at the meeting are placed in the hands of the secretary. Of course the completed copy for the Proceedings can not be given to the printer until the last paper is submitted. I would very urgently request that all papers intended for publication in the Proceedings be handed to the secretary by the close of the meeting or, at the latest, within two weeks from that date.

In accordance with your instructions at the 1904 meeting, the different papers were so arranged in Volume XI of the Proceedings that the work of each author constituted a distinct article, by itself. The printer kindly agreed to furnish the Academy 100 extra copies of the Proceedings at the same rate that was paid for the 1,000 copies furnished by the state. From these 100 extra copies the different papers were extracted and stitched separately, and distributed as reprints to the various writers. In this manner the Academy was enabled to furnish to each author 100 separates of his paper at a cost of about forty-six dollars.

Respectfully submitted,

T. E. SAVAGE, Secretary.

REPORT OF TREASURER FOR 1904-1905.

RECEIPTS.

Balance from 1903-4.....	\$113.68
Back dues .....	12.00
Annual dues, eighteenth meeting .....	58.00
Initiation and transfer to fellows.....	25.00
Sale of Proceedings, Part 1 of Vol. 1.....	1.00
Sale of Proceedings other than Part 1.....	9.30
Total .....	\$218.98

EXPENDITURES.

Expense, postage, express, drafts, etc., treasurer.....	\$ 7.72
Expense, postage, secretary .....	7.90
Printing, 500 letter heads, Ray & Cowden .....	\$2.00
200 receipt blanks, Ray & Cowden .....	1.25
Total .....	\$3.25
200 preliminary programs 1905.....	\$2.75
100 final programs .....	1.50
250 circular letters to science teachers.....	2.00
100 membership blanks.....	1.25
Total .....	7.50— 10.75
Printing of Authors' Separates, B. Murphy.....	45.82
Binding of Proceedings for members, H. Tedford .....	22.00
Cash on hand .....	124.79
Total.....	\$218.98

H. W. NORRIS,  
Treasurer.

Upon the recommendation of the membership committee the following transfers and additions were made to our list of fellows, associate members and corresponding members:

TRANSFERRED FROM ASSOCIATE MEMBER TO FELLOW.

A. T. Erwin, Ames; Wesley Greene, Des Moines; C. N. Kinney, Des Moines; A. A. Miller, Davenport; Edwin Morrison, Oskaloosa; F. J. Seaver, Mt. Pleasant; I. A. Williams, Ames.

ELECTED FELLOWS.

H. P. Baker, Ames; E. W. Rockwood, Iowa City; W. J. Teeters, Iowa City; A. G. Smith, Iowa City; Morton E. Peck, Iowa Falls; J. B. Coover, Ames; W. E. Harriman, Ames; A. A. Van Hyning, Des Moines; A. A. Bennett, Ames.

ELECTED ASSOCIATE MEMBERS.

Sara Nollen, Grinnell; C. L. Bryden, Iowa City; Geo. E. MacLean, Iowa City; Samuel J. Collett, Toledo; H. E. Ilsley, Iowa City; F. G. Robb, Winfield; Mary Griffith, Iowa City; O. M. Olson, Ft. Dodge; H. S. I. Rutledge, Ft. Dodge; L. G. Michael, Ames; J. W. Edwards, Mt. Pleasant; R. Monroe McKenzie, Fairfield; Chas. Aldrich, Des Moines; Naomi Ackenback, Marshalltown; G. B. Affleck, Cedar Falls; Dr. Joseph A. Treat, Stuart; Netta Anderson, Rock Island; Georgia Witter, Ames; Hon. Ellison Orr, Waukon; Estelle Fogel, Ames; W. G. Ross, Fairfield; F. L. Rainey, Fair-

field; Frances Carns, Newton; C. Guy Eldredge, Mt. Vernon; L. E. A. Ling, Cresco; L. D. Weld, Cedar Rapids; Mabel Clare Williams, Cedar Rapids; Dan F. Bradley, Grinnell, C. E. Seashore, Iowa City; Edna M. Warren, Grinnell; Miss Emma Johnson, Grinnell; Prof. J. H. T. Main, Grinnell.

CORRESPONDING MEMBERS.

A. N. Cook, Vermillion, S. D.; L. W. Andrews, St. Louis, Mo.; J. B. Weems, Alleghany, W. Va.

The membership committee, consisting of W. S. Hendrixson, H. W. Norris and T. E. Savage, was made a standing committee to act throughout the year in securing an increase in the membership of the Academy.

REPORT OF COMMITTEE ON RESOLUTIONS.

Your committee on resolutions begs leave to present the report following:

*Resolved*—First. That the Iowa Academy of Sciences, in Grinnell assembled, records an expression of grateful appreciation of the hospitality extended this Academy by the citizens of Grinnell.

Second. That the Academy recognizes its deep obligations to the members of the Faculty of Iowa College by whose efforts all local arrangements were made perfect for the use and convenience of the Academy.

Third. That the Academy is especially appreciative of the courtesy of President and Mrs. Bradley in opening the President's house to the reception of visiting members and fellows.

Your committee begs further to report the resolution following:

*Resolved*—That the Iowa Academy of Sciences records its sympathy in the effort of all those citizens of the state who are laboring to maintain the perpetuity of our various natural and meandered lakes, wherever these can be made to serve the beauty of Iowa landscapes, and the comfort, pleasure and recreation of our people.

S. W. BEYER,  
THOMAS H. MACBRIDE,  
C. O. BATES.  
Committee.

The committee on secretary's report submitted the following recommendations concerning reprints, papers, etc., which were adopted:

1. That the secretary make the same arrangement as was made last year with regard to separates of papers, but that he be endowed with discretionary powers, after conferring with the executive committee.
2. That all papers for publication in the Proceedings should be submitted to the secretary within two weeks after the date of the annual meeting.
3. That all lists or purely catalogue papers should be printed in double column form.
4. That the Academy pay the secretary an honorarium of twenty-five dollars for the ensuing year.

L. H. PAMMEL,  
L. S. ROSS,  
FRANK F. ALMY.  
Committee.

The following officers were elected for the ensuing year:

*President*—M. F. Arey.

*First Vice-President*—J. L. Tilton.

*Second Vice-President*—C. O. Bates.

*Secretary*—T. E. Savage.

*Treasurer*—H. E. Summers.

*Elective Members of the Executive Committee*—L. S. Ross; C. L. von Ende; R. B. Wylie.

The committee on pure food legislation was continued. Prof. L. G. Michael was made a member of the committee to fill the vacancy made by the removal of Prof. J. B. Weems from the state. The committee was authorized to elect its own chairman.

At the literary sessions the following papers were presented:

Presidential address, "Botany and Intelligent Citizenship."—B. Shimek.

"The U. S. S. Albatross and its Work."—C. C. Nutting. (Illustrated with lantern slides taken by the author.)

"Apparatus for Plating Out Petri Dishes in the Field."—L. S. Ross.

"Notes on American Cladonias."—Bruce Fink.

"Some Notes on the Flora of the Bitter Root Mountains of Montana."—L. H. Pammel.

"An Ecological Study of the Sabine and Neches Valleys, Texas."—James E. Gow.

(a) "Action of Bromic Acid on Metal." (b) "Determination of Bromic and Hydriodic Acids."—W. S. Hendrixson.

"A Study of a Thermophilic Bacterium."—R. E. Buchanan.

"J. J. Thomson's Theory of Matter."—L. Begeman.

"Variation in the Ray Flowers of *Anthemis cotula* and Other Composites."—H. S. Fawcett.

"Some Slime Moulds of New Mexico."—T. H. Macbride.

"Report on Some Iowa Birds."—B. H. Bailey.

"Different Methods of Determining Carbon Dioxide in Minerals and Rocks."—Nicholas Knight.

"Flora of Hardin County."—Morton E. Peck.

"Three Color Projection."—C. F. Lorenz.

"Some Notes on Certain Iowa Algæ."—Bruce Fink.

"The Biology of *Bacillus Violaceus Laurentius*."—Grace Roode Rueda.

"Plants New to the Flora of Decatur County, with Summary."—J. P. Anderson.

"The Morphology of *Vallisneria Spiralis*." (Illustrated.)—R. B. Wylie.

"A Problem in Municipal Waterworks for a small Town."—J. L. Tilton.

"The Liliaceæ of Iowa."—T. J. Fitzpatrick.

"The Flowering Plants of Henry County."—J. M. Lindly.

"The Storage Battery and Switchboard at Simpson College."—J. L. Tilton.

"An Annotated List of Iowa Discomycetes."—Fred J. Seaver.

"Northward Extension of the Lake Valley Limestone."—Charles R. Keyes.

"Geological Structure of the Jornada Del Muerto and Adjoining Bolson Plains."—Charles R. Keyes.

"Bisection of Mountain Blocks in the Great Basin Region."—Charles R. Keyes.

"A Laboratory Barometer."—A. C. Page.

"Cohesion of Liquids and Molecular Weights."—Edwin Morrison.

"Municipal Hygiene." Part I.—C. O. Bates.

"Some Bacteriological Analyses of Railroad Water Supplies."—L. H. Pammel and Estelle D. Fogel.

"Growth and Pigment Production of *Pseudomonas Janthina*."—Harry F. Watt.