

# Proceedings of the Iowa Academy of Science

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## Proceedings of the Thirty-First Annual Session (of the Iowa Academy of Science), Held in Grinnell, April 27 and 28, 1917: Minutes of the Meeting; Staff & Committee Reports

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## PROCEEDINGS OF THE THIRTY-FIRST ANNUAL SESSION

Held in Grinnell, April 27 and 28, 1917

The Iowa Academy of Science held its meeting at Grinnell College, with Alumni Recitation Hall as headquarters. The first meeting was opened at 1:30 on Friday afternoon, the 27th, with President Stewart in the chair. After the business session a general literary session was held, following which the Academy divided into three sections as follows for the reading of papers of special interest: (1) Geology, (2) Biology and Botany, (3) Mathematics, Physics and Chemistry.

In the evening at 8 o'clock Professor S. M. Woodward of the State University of Iowa gave his illustrated lecture on the Flood Protection Plans for the Miami Valley, Ohio.

This address is published substantially as given, in the Proceedings of the Ohio Engineering Society—Thirty-eighth Annual Meeting, 1917.

On Saturday morning the sections resumed their meetings and at 11 o'clock the Academy met for its final business meeting, at which new members were elected and officers for the ensuing year were chosen.

The Iowa and Ames sections of the American Chemical Society, and the Iowa section of the Mathematical Association of America held their meetings in connection with the Academy.

### REPORT OF THE SECRETARY.

#### *Members of the Iowa Academy of Science:*

The past year has been an active and prosperous one for the Academy, one of the best years, indeed, in its recent history. A number of scientists and friends of science have united with the Academy during the year. The President of the Academy has prosecuted a vigorous campaign for recruits to our ranks, and as a result of this effort coupled with the activity of other members, the names of over sixty candidates are to be presented to the Academy for election to membership. The Executive Committee has made a canvass of the membership roll and has recommended a large number of Associates to promotion as Fel-

lows. Many of the Associates have availed themselves of this privilege and their names will be presented at the business session. The Treasurer and the Secretary have continued their hurry-up campaign among those members who from one cause or another have grown lax in their interest in the Academy. The program which you have received will show that the members of the Academy have been busily engaged in their chosen lines of research, and that their work has been far from fruitless or purposeless. It may be of interest to recall that when the Academy met with Drake in 1907 twenty-three papers were presented. When the Academy returned to Drake last year eighty-five titles were on the program. When we met with Grinnell in 1910 thirty papers was the maximum. Today there are already eighty-five titles printed on the program and others will be presented at this meeting. No doubt this increase represents in a very accurate way both the growth of scientific work in the state and the enlarged interest in the Iowa Academy of Science and appreciation of the important place it fills in the scientific world.

A large part of the work of the Secretary is editorial and much of his attention and effort must of necessity be directed in editorial channels. Upon his shoulders rests the responsibility for the creditable appearance of the published Proceedings and upon his shoulders, likewise, will fall the whip of censure for whatever shortcomings may be evident. One who has had no experience in the process of editing and publishing such a book as our Proceedings can not realize the amount of work necessary nor the details to which attention must be given. It is in the power of every contributor to the Proceedings, however, to assist in the work by seeing to it that his paper is correct in all its details. Such a paper is a joy to the editor, and to the printer as well. Experience has led me to feel confident that there is in this Academy a host of productive workers whose published contributions would have real literary value if they were prepared with the care that the merit of the subject would justify. We all realize that a subject of considerable worth may be so abused by the literary mistreatment which it receives in its introduction to the reading public that no one recognizes its true value and no one appreciates the ability of its progenitor. And yet in the face of this situation, to what extent does every author live up to his realization of his obligation to his subject, to the Academy and to the scientific world? This is a question to which

each member of the Academy may well give serious consideration.

Your attention is called to a change in the last volume of the Proceedings. Instead of being printed on soft paper, with the illustrations printed on calendared paper and tipped in, as has been the case with former volumes, the text and illustrations of this volume are printed together on a thinner, finished book paper. This effects an economy in paper and binding and gives a smaller, less bulky volume. In this connection may I suggest the advisability of keeping papers for the Proceedings within reasonable limits as to size. While there is no legal limit on the number of pages in our Proceedings it would be well to have the papers short enough so that the volume will not attain undue dimensions. There is a feeling that sixty pages, for example, a number which was reached by three papers in the last volume, is too much for one member to demand in a publication such as ours. I commend this suggestion also to your consideration.

This is the day of preparedness. Every people in the forefront of civilization is issuing the call to its citizenship to prepare, whether it be to advance to the attack against the high cost of living—or the cost of high living, as the case may be—or to ward off the encroachments of a foreign foe. In such a time of stress the men and women of science must not and will not be found wanting. Whether the call comes to us to serve in the laboratory or on some more strenuous field it is for us each one to do our bit—to appropriate a popular phrase—to advance the cause of democracy and of the ideal social order in every way that lies within our power. The world is making demands upon science on a scale which is entirely unprecedented in history. Undoubtedly as strenuous demands will be made for the amelioration and the improving of the conditions of human existence as are now being made for the aid of science in destroying human life. Here, too, the devotees of research must not be found wanting. This call too must find us proven men and women of action, prepared still to measure up to the need and to the responsibility which our opportunities have put upon us. You who now are and who are to be the leaders in intellectual and social progress will not shirk the duty which your country expects you to fulfill.

Respectfully submitted,

JAMES H. LEES,  
*Secretary.*

REPORT OF THE TREASURER, 1916-1917.

RECEIPTS

Cash on hand, April 25, 1916.....	\$ 5.62	
Dues from members.....	175.05	
Initiation fees, fellows.....	3.00	
Initiation fees, associates.....	33.10	
Transfer fees, associate to fellows.....	6.00	
Life membership fees.....	14.00	
From sale of proceedings.....	5.68	
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Total.....		\$ 242.45

DISBURSEMENTS

Honorarium and expenses of speaker, 30th meeting..	\$ 25.58	
Supplies and postage for the secretary.....	21.52	
To Miss Newman, wrapping and tying volume XXII.	10.00	
Independent Printing Co., envelopes and blank receipts.....	4.50	
Postage and supplies for treasurer.....	9.00	
To Miss Rosenberger, clerical work for treasurer...	5.00	
Refund to Professor Kay, excess payment.....	1.00	
Honorarium to secretary.....	25.00	
American Lithographing Co., 400 programs.....	9.00	
State binder, binding volume XXI and separates....	68.50	
State printer, excess pages Vol. XXI.....	25.00	
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Total.....		\$ 204.10
Balance on hand April, 25, 1917.....		\$ 38.35

A. O. THOMAS,  
*Treasurer.*

REPORT OF PROFESSOR CONARD.

*Mr. President, and Fellow Members of the Academy:*

In thanking you for the honor of representing you at the tenth anniversary of the Illinois Academy of Science, I can report that I attended all of the sessions of that body at their recent meeting at Galesburg, Illinois, February 23 and 24. The welcome given the Academy by Knox and Lombard Colleges and by the Citizens of Galesburg was most cordial, and only equalled by the generous hospitality offered to the visiting delegates. The Academy had two sessions for the general public. One of these was a symposium on Public Health. Both were largely attended. Sectional meetings and a business meeting closed the sessions. On Friday evening an anniversary banquet was held, on which occasion I had opportunity to convey the greetings of this Academy.

ELECTION OF NEW MEMBERS.

The Secretary submitted the following names for election in behalf of the membership committee:

The persons named were declared elected.

*Elected as Fellows*—Edwards, J. W., Wesleyan College, Mount Pleasant; Faris, Ellsworth, S. U. I., Iowa City; Winter, C. L., Western Union College, Le Mars.

*Transferred from Associate Member to Fellow*—Boyd, Dr. Mark F., Iowa City; Brown, Percy E., Ames; Brumfiel, D. M., Iowa City; Carter, Chas., Fairfield; Coffin, Chas. L., Oskaloosa; Davis, W. H., Cedar Falls; Doty, H. S., Ames; Ewing, H. E., Ames; Fordyce, Emma J., Cedar Rapids; Goodell, F. E., Iowa City; Higbee, F. G., Iowa City; Hinman, Jack J., Jr., Iowa City; Jaques, H. E., Mount Pleasant; Jewell, Susan G., Tabor; Lazell, Fred J., Cedar Rapids; MacDonald, G. B., Ames; McKenzie, R. Monroe, Fairfield; Oleson, O. M., Fort Dodge; Oneley, Lawrence, Fayette; Overn, O. B., Decorah; Plagge, Herbert J., Ames; Pomeroy, J. C., Ames; Reilly, John F., Iowa City; Scullen, H. A., Ames; Smith, George L., Shenandoah; Smith, Dr. O. H., Mount Vernon; Stoner, Dayton, Iowa City; Watson, E. E., Fairfield; Weld, Leroy D., Cedar Rapids; Wifvat, S. J. A., Des Moines; Wolden, B. O., Wallingford.

*Elected as Associates*—Baker, N. E., Iowa City; Ballew, Howard, Mount Pleasant; Barnhart, Frances, Iowa City; Berry, E. M., Iowa City; Betts, Prof. G. H., Mount Vernon; Breitbach, Dean J. J., Dubuque College, Dubuque; Briggs, Leo, Indianola; Buchanan, L. L., Iowa City; Campbell, J. W., Indianola; Carter, Edna M., Fayette; Carson, Russell, 2923 Rutland ave., Des Moines; Cross, Harry A., Jr., Grinnell; Dewey, A. H., Iowa City; Dedson, R. B., Iowa City; Emmons, C. W., Indianola; Flint, President Chas. W., Mount Vernon; Foster, C. L., Iowa City; Fortsch, A. R., Iowa City; Galloway, J. Earle, Highland Park College, Des Moines; Godfrey, Geo. H., Ames; Grubb, Aubrey C., Cedar Falls; Hadley, S. M., Oskaloosa; Hart, Irving H., Cedar Falls; Hawk, G. C., Oskaloosa; Heitkamp, G. W., Dubuque; Hendersen, R. W., Iowa City; Hilleboe, H. S., Decorah; Himmel, W. J., Sioux City; Hughes, Miss Sally P., Grinnell; Jordan, R. H., Iowa City; Julian, Arthur, Burlington; Kagy, Elbert O., Des Moines; Kirby, R. S., Ames; Knoll, Wm. V., Iowa City; Krall, John A., Ames; Kuzirian, S. B., Ames; Lindsey, Arthur W., Sioux City; Lockhart, W. O., Cedar Falls; McGaw, Frederick M., Mount Vernon; Maxwell, Harold L., Mount Vernon; Miller, Rev. J. C., Dubuque College, Dubuque; Moek, President Charles A., Western Union College, Le Mars; Mortimer, F. S., Iowa City; Rohret, Marguerite B., Iowa City;

Rowe, Paul, Glenwood; Savre, B. K., Decorah; Sayre, A. Raymond, Indianola; Schell, President Edwin A., Iowa Wesleyan College, Mount Pleasant; Schoewe, W. H., Iowa City; Schriever, Wm., Iowa City; Scott, Helen, Grinnell; Smith, Donald M., Zearing; Springer, Elizabeth, Iowa City; Spurrell, Jno. A., Wall Lake; Stainbrook, Merrill A., Brandon; Thomas, E. H., Tabor; Thomas, Wilbur A., Grinnell; Thompson, Geo. E., Ames; Thompson, L. D., Mount Pleasant; Uttley, Marguerite, Cedar Falls; Walter, Otto, Iowa City; Weir, Samuel, Indianola; Wilcox, Alfred C., Mount Vernon; Wilson, Ben H., Mount Pleasant; Woodruff, H. B., Drake University, Des Moines; Yocum, L. E., Ames; Young, V. H., Iowa City; Zuker, W. B., 3127 Fourth street, Des Moines; Jessup, President W. A., Iowa City; Galpin, Sidney L., Ames; Perry, Winifred, Boone.

RESOLUTIONS ADOPTED.

The Committee on Resolutions submitted the following report and it was adopted by the Academy.

Your committee on resolutions present the following report:

*Resolved, First*—That we express to the Faculty of Grinnell College our appreciation of the excellent local arrangements for this our Thirty-first Annual Meeting, and to the ladies especially who have provided so splendidly for the general luncheon with its pleasing associations.

*Second*—That we express to Professor S. M. Woodward our appreciation of the very instructive and entertaining lecture which he has so kindly consented to give.

*Third*—That we instruct the Secretary of the Academy to telegraph to the President of the United States that the Fellows and Members of the Iowa Academy of Science appreciate his stand in these trying times, and pledge to a man their support in this war till the spirit of democracy shall prevail, and all the leading nations of the earth shall have government of the people, for the people, and by the people.

*Fourth*—That we endorse the recent action of the legislature in passing laws to protect quail and prairie chicken for a period of five years, and in providing for the establishment of a Board of Conservation to determine upon regions of scenic beauty that shall be preserved for the benefit of future generations.

That we commend the energy and farsightedness of the members of the legislature who fathered these acts and secured their passage.

JOHN L. TILTON,  
NICHOLAS KNIGHT,  
R. L. WEBSTER,  
*Committee.*