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PROCEEDINGS OF THE THIRTY-THIRD ANNUAL SESSION

Held at Cedar Falls, April 25 and 26, 1919

The meetings of the thirty-third session of the Academy were held at the State Teachers College on April 25 and 26, 1919. The opening meeting was called to order by President Beyer at 1:30 Friday afternoon in the recitation room of Chemistry Hall. After a short business session, Doctor Beyer delivered the Presidential Address on "Some Problems of Conservation," after which the Academy passed to the reading of papers of general interest. Following these the Academy separated into sections of Zoology, Botany, Geology and Physics for further reading of papers.

At 6:45 the Academy convened for a special war film exhibit, following which President Emeritus Macbride addressed the Academy on the work of Scientists in the war. It was moved and carried that brief outlines of the work of the different branches of science be prepared by members to be chosen and that these be printed in the Proceedings. Following this meeting the members attended a reception tendered the Academy by President and Mrs. Seerley.

On Saturday morning the sections resumed their work and at 11:00 o'clock the Academy met for its final business session.

REPORT OF THE SECRETARY.

Members of the Academy:

It is scarcely necessary for me to remind you that this has been an abnormal year in all lines of activity, to explain several features of the year's work in the Academy. I strongly suspect that the decrease in the number of papers to be presented at this meeting may be traced to this abnormality and to the diversion and distraction of men's thoughts. We have, with difficulty, been able to direct our minds along the customary channels of reasoned scientific procedure and the results of the year's activity may perhaps reflect this situation to some extent. It is but a passing phase, however, and before long we shall find ourselves settled back into more normal fields of productive effort.

You have all been wondering what has become of the, supposedly, forthcoming volume of the Proceedings, toward whose value and importance you contributed so materially. The Secretary has had the same feelings many times and would be greatly pleased could he put a copy into the hands of each of you at this moment. His inability to do so must be charged to the aforesaid abnormal state of public activity. As a matter of fact it has been almost impossible for the printers to get employees competent to do the quality of work which our Proceedings demand. The volume is practically all in type, however, and work has been begun on making it up into page form. Progress promises to be more rapid very soon.

In this connection may I make mention of one part of the editorial work on the Proceedings. There are a good many calls in the course of each year for a list or index of the publications of the Academy. This demand led to the preparation of an index to the twenty-five volumes so far issued, including the one now in course of publication. A word of explanation may make its use a little easier. It was necessary, of course, to make it as brief as possible to avoid making the volume too bulky. The plan followed has been to give each title complete under the author's name, also a complete or in some cases slightly condensed title under the most prominent word. In addition cross references are given where necessary. Each author's titles are listed under his name in chronological order. It is probable that a number of extra copies will be printed to supply the demand. It is hoped that this index will prove useful to the members of the Academy and to the public as well.

The subject of the Corresponding Fellowship list and its relations to the Academy has been discussed before you several times in the past. It is to be presented again for what it is hoped will be its final settlement. There seems to be some misapprehension regarding the standing of this class of members. The constitution originally provided that workers in science in other states might be elected as corresponding fellows, also that fellows removing to another state might be classed as corresponding fellows. As a matter of fact only one person on our present list of corresponding fellows was elected as such under the first provision, namely Doctor Udden. All the others have been transferred under the second provision. Further, the records show that six of these were associates for periods ranging from one year to five years, without payment of any dues, and then, without becoming fellows, were transferred to the list of corresponding fellows and have been receiving without cost cloth bound

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copies of our Proceedings for twenty years, while in some instances our active members have had to be content with board bound copies. Now there is no honor either to the Academy or to the members in their being transferred to the corresponding list, and there is no reason why they should be exempt from payment of dues. That this has been the general opinion is evidenced by the fact that there are on our books two amendments providing for payment of dues by these members. It will be well to keep the historical situation in mind in voting on the amendments relating to corresponding fellows and associates which are to be brought before you.

The American Association for the Advancement of Science is urging upon scientific societies the nation over the desirability of affiliation with itself and thus of unification of the scientific forces of America for improved opportunities for their work and better appreciation of their efforts. Article 7 of the revised constitution, to be presented for adoption at the St. Louis meeting, reads as follows: "National and local scientific societies may, by vote of the council, become associated with the Association. Those associated societies which the council shall designate as affiliated societies are represented on the council and on the sectional committees as provided in articles 4 and 5." (Science, N. S. Vol. XLIX, p. 113, Jan. 31, 1919.) Such affiliated academies are left absolutely free as to their own work and organization and if all members of such an academy become members of the Association part of the Association membership fee of three dollars is returned to the academy for its expenses. Thus the Association becomes in effect an association of the various societies which unite with it. It would seem that such affiliation on the part of the Iowa Academy of Science should be mutually helpful to both parties in the agreement and I would commend the plan to your consideration.

It seems to your Secretary that the time has come when there must be a somewhat decided change in the editorial policy of the Academy or else there must be an equally decided change in the personnel of the editorial staff. The Academy has grown to such proportions and the number of papers presented annually for publication has become so large that the task of editing the Proceedings and preparing them for the printer has become a very arduous one for a volunteer editor, so to speak, and particularly, perhaps, for one who has an increasingly large amount of similar work to do in his regular capacity. It is realized, without any self-laudation, that there are advantages in having this work done by one at the seat

of government and more or less intimately connected with that government. Our Proceedings are in a way public and official documents, since the State provides for their publication and it is perhaps somewhat more convenient for a public official to attend to their publication. The work has also been a very pleasant and enlightening one and it is not at all with the wish of shirking an unpleasant duty that these statements are made. But the necessity for a change is nonetheless urgent. This change must take the form, as previously suggested, either of the choosing of another editor who shall have more time to devote to the work, or the assumption of more responsibility by the authors of the papers to be published. This latter alternative will be easy if each author will do his share. By this I mean that in the first place he exercise the greatest care in the preparation of his manuscript. I wish that each one of you might have on your desks the little booklet issued by the United States Geological Survey entitled Suggestions to Authors. This contains many hints and discussions which are of value to writers on any subject whatever and it is accepted as standard by the Iowa Geological Survey except in a few points wherein the Survey's practice of long standing has been different. The general use of such a book as this would tend much to lighten the work of the editor. You will all agree I am sure that it is not fair for a writer to send in a paper which must be read twice by the editor before it can be sent to the printer, or one which must be sent back to be typewritten or to be couched in more grammatical form. And yet such cases are not unknown to the editorial sanctum. In the second place papers must be brief. I have mentioned this repeatedly and will pass it by here with the statement of fact.

Heretofore the editor has followed the practice of reading the galley proof, then sending it, with copy, to the author, and later reading the page proof. This plan places the responsibility for the correctness of the paper with the author, but means a great deal of work for the editor. One way in which the authors can assist will be by reading the page proof, thus leaving only one proof reading for the editor. Even this leaves a great amount of work which must be done by the editor.

In the matter of illustrations also there is room for improvement. If authors will carefully plan the arrangement of the illustrations in their papers and will see that they are economically and suitably grouped a great deal of unsatisfactory work will be spared the editor and the authors will be better pleased with the results. This

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point also has been called to your attention before and may be dropped with the suggestion.

In concluding this discussion it may not be out of place to state that several of our sister academies employ secretaries who devote their whole time to the work and who are paid by the State for their services while our Academy has always been served by secretaries who have done its work in addition to their regular duties. The same is true of the other officers of the Academy and it should be realized that the office of Treasurer, particularly, involves a great amount of work extending entirely through the year. This comparison is made, not for any purpose of disparagement, but merely to show under what different circumstances the work of our society is carried on.

In conclusion let me felicitate the Academy upon its steady growth and its maintenance of the high ideals which are its goodly heritage. Let me also thank the members for their kindly response to whatever calls have been made upon them for service or assistance in prosecuting the work of the Academy.

Respectfully submitted,

JAMES H. LEES,
Secretary.

TREASURER'S REPORT.

RECEIPTS.

Cash on hand, April 22, 1918.....	\$ 27.30
Transfer and entrance fees.....	62.00
Annual dues from members.....	195.00
Sale of Proceedings.....	3.00
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Total	\$287.30

EXPENDITURES.

Honorarium to Dr. E. A. Birge, lecturer at the 32d Meeting	\$ 50.00
Postage and clerical work for Treasurer.....	17.00
Stationery for Treasurer.....	2.50
Stationery and postage for Secretary.....	18.17
To Miss Newman, sending out Vol. XXIV.....	10.00
Honorarium to Secretary.....	25.00
Postage to A. L. Bakke, sending out questionnaires	4.05

To Robert Henderson, State Printer.....	9.00	
To J. M. Jamieson, State Binder, binding 1917 report	120.00	
Balance on hand, April 25, 1919.....	31.58	
Total		\$287.30

A. O. THOMAS,
Treasurer.

Report correct.

HAROLD STILES,
R. W. GETCHELL,
Committee.

REPORT OF COMMITTEE ON SECRETARY'S REPORT.

Cedar Falls, Iowa, April 26, 1919.

To the Iowa Academy of Science:

Your committee appointed to consider the suggestions of the Secretary wishes to report as follows:

First—That the members of the Academy be instructed to take full responsibility in the preparation of typewritten papers and of illustrations that will stand such reduction as may be necessary to fit the page; and that they also take full responsibility with reference to the correction of the galley and the page proofs.

Second—We wish the finances of the Academy permitted adequate compensation of the secretary and also for the Treasurer for their services. We recognize, however, that such labor must for the present continue to be a labor of love, for the welfare of science in Iowa and recommend the adoption of this expression of our appreciation for that labor so admirably performed. We further recommend that the honorarium of the Secretary be changed from Twenty-five to Fifty Dollars for the year, that all expenses be paid as heretofore, and also such expenses of both Secretary and Treasurer as may be necessary in attendance upon a meeting of the Executive Committee to plan for the welfare of the Academy if such meeting is held between the sessions of the Academy.

Third—We are glad to express more than approval of the plan for the publication of an index to the Proceedings of the Academy. Such an index will assist very materially those who wish to consult the numerous valuable papers published in the Proceedings.

Fourth—We approve the suggestion that the Iowa Academy become affiliated with the American Association for the Advance-

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ment of Science under such provisions as are at present reported requisite and recommend that the necessary steps be taken to accomplish that affiliation.

Fifth—We understand that the Fellows of the Academy have been informed of proposed changes in the constitution with reference to honorary fellows and others not residing in the state, so do not report on those recommendations.

Respectfully,

JOHN L. TILTON,
(*For the Committee.*)

The Committee on the Secretary's report gave its report and a motion was made and carried that the report be considered by sections. After a rereading of section one, it was moved and carried that the Executive Committee have power to reject articles which were unsatisfactory and that responsibility be put on authors. On section two it was moved and carried that a vote of thanks be given the Secretary and Treasurer and that the matter of the honorarium to the Secretary be left with the Executive Committee. Section three was adopted. After a discussion of section four it was moved and carried that the matter of affiliation be left with the Executive Committee and that the committee be instructed to prepare a program for affiliation with the A. A. A. S., provided that such affiliation modifies the internal organization of the Academy, such program to be presented to the Academy. Otherwise, the Executive Committee is to have power to act. It was then moved and carried that the report as a whole be adopted.

The proposed amendments to the constitution were then read. The first amendment was discussed and on motion was laid on the table. The matter of enforcement of the present provisions of the constitution was left with the Secretary and Treasurer. The second amendment was discussed and was carried. The amendments are found below.

PROPOSED AMENDMENTS TO THE CONSTITUTION.

Professor Pammel proposes the following change to section 4 as amended. (See volume XXIII, p. 14.) From the sentence regarding entrance fees and annual dues strike out the words "and corresponding fellow." From the sentence regarding arrearage strike out the words "and corresponding fellows."

Professor Stewart, for the committee on the eligibility of Associates residing outside the state to be elected as Fellows, proposes

the following addition to section 3: "An Associate moving to another state becomes thereby a Corresponding Associate. A Corresponding Associate may be elected a Corresponding Fellow in the manner provided for the election of Fellows."

REPORT OF THE COMMITTEE ON NECROLOGY.

The Committee on Necrology begs leave to call attention to the deaths of Dr. Byron D. Halsted, a charter member, formerly of Ames and later of Rutgers College; Mr. Glenn I. Tenny of Des Moines, who enlisted in the army and lost his life in the services of our country; and Mr. R. B. Dodson, of the Physics Department of the State University at Iowa City. Appropriate sketches will appear in the Academy Proceedings.

L. H. PAMMEL,
C. C. NUTTING,
Committee.

REPORT OF THE MEMBERSHIP COMMITTEE.

The Membership Committee presented the following report, which was adopted and the persons were declared elected.

For Transfer from Associate to Fellow—R. E. Conklin, Miss M. Louise Sawyer, W. F. Coover, H. R. Werner, Otto Walter, E. L. Palmer, F. S. Mortimer, G. C. Morbeck, Wm. Diehl.—9.

For Transfer from Associate to Corresponding Associate and Thence to Corresponding Fellow—Elmer Dershem, Urbana, Ill., M. P. Somes, Kalispell, Mont., I. N. Gabrielson, Corvallis, Oregon. Charles M. Fraser, Nanaimo, B. C.—4.

For Election as Fellow—Harry A. Geaque, Indianola.

For Election as Associates—C. N. Ainslee, Sioux City, Rev. Chas. Snyder, Sioux City, Dr. Grant J. Ross, Sioux City, Dr. Thomas P. Haslam, Sioux City, A. F. Allen, Sioux City, Delmer C. Cooper, Sioux City, A. J. Anderson, Sioux City, James A. Coss, Sioux City, Arthur H. Locke, Sioux City, Winfield Scott, Cedar Falls, E. Lyle Peck, Centerville, K. Bird, Des Moines, F. W. Emerson, Oskaloosa, Mrs. Sadie B. Allen, Waterloo, Tom McMillen, Mount Pleasant, George E. Crane, Mount Pleasant, James T. Whiting, Mount Pleasant, Wm. H. Gran, Mount Pleasant, Hugh Robinson, Mount Pleasant, C. E. Smith, Mount Pleasant, C. W. Cruikshank, Mount Pleasant, W. O. Lockhart, Cedar Falls, Chas. B. Crofutt, Mount Vernon, Evelyn Ensign, Storm Lake, Waldo S. Glock, Vinton, Fred Cox, Iowa City, Miss Paul, Iowa City, Mrs. Lillian Nims, Osage, 8

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Jacob Trieschman, Mount Vernon, Miss Elizabeth P. Moulton, Cedar Falls, Edward J. Hornick, Dubuque, F. C. Mortensen, Cedar Rapids, Rev. Herbert Marsh, Wesley, Chester A. Momyer, Jr., Algona.—34.

The names of Professors James Edward Todd and Johan August Udden, Corresponding Fellows of the Academy, were proposed for election to Honorary Fellowship, as provided by the Constitution. They were unanimously elected. Both gentlemen have since accepted the election.

Professor Kinney opened a discussion on salaries of science teachers in the colleges and it was finally moved and carried that the chair elect a committee, of which Professor Kinney should be chairman, to formulate for the Academy a statement on the question and that the statement should be sent to the presidents of the Iowa Colleges.

The President later appointed as the additional members of this committee, G. W. Stewart, F. F. Almy, S. W. Beyer and James H. Lees.

Other special committees appointed by the President were the committee on legislation, consisting of John L. Tilton, Chairman, C. C. Nutting, D. W. Morehouse, Nicholas Knight, James H. Lees; also a committee on conservation, consisting of W. H. Davis, Chairman, B. Shimek, H. E. Jaques, G. B. MacDonald and G. A. Chaney.

 REPORT OF COMMITTEE ON CONSERVATION.

The writer was appointed a committee on conservation at the Iowa City meeting of the Iowa Academy of Science. Soon after the appointment of the committee the writer had an interview with Governor Harding to appoint the members of the Conservation Board. The writer asked the Governor to appoint a member of the Academy, preferably the President. Owing to the strenuous war work of the Governor it was impossible for him to appoint this Conservation Board until late in November or early in December, 1918.

The Governor appointed Hon. J. F. Ford of Fort Dodge, Hon. Joseph Kelso of Bellevue, and much to my surprise asked me to accept appointment on this Board. Mr. E. R. Harlan, the other member of the Board was named by the legislative act. The Board organized in December by electing the Iowa Academy representative as chairman and Mr. E. R. Harlan secretary. The Board is representative in that there are two good and capable business men in the same, Messrs. Kelso and Ford. In our transactions a great

many financial matters come up and the experience of these men is worth much to the state. Mr. Harlan looks after the secretarial work with the assistance of Mr. Mott. The whole park matters have been thoroughly systematized. Everything is in good working order.

We have acquired out of the hunters' license fees the Devil's Backbone park in Delaware county, which is to be dedicated on October 1, 1919. We have also had donated to us an area near Farmington of one hundred acres with a lotus lake of forty acres. There was donated to us an area in Keosauqua of one hundred sixty acres to which we added by purchase considerable more land. We have also added to our park area by gift from the Brandt sisters a tract of fifty-seven acres known as the Wild Cat Den, Muscatine county. We have asked the citizens of Muscatine and Davenport to raise by subscription \$5,000 so that the whole of the area can be acquired, enough to make about two hundred and twenty acres. We would then have a park extending from Wild Cat Den to Mississippi river on Pine creek. Other gifts are in sight.

The Conservation Board proposes three types of parks: *Highway parks* of twenty-five acres distributed in various counties convenient to a good highway; *Lake parks*, areas on lakes; and *State parks*, more or less unique places of larger area having some scientific, historical or recreational interest. The last legislature appropriated \$100,000 annually and provided the State Historical Museum with an assistant secretary to assist in the park matters. Mr. E. R. Harlan secured the service of an excellent man, Mr. Mott, to do this work.

L. H. PAMMEL,
Chairman of Committee.