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Proceedings of the Thirty-Fourth Annual Session (of the Iowa Academy of Science), Held at Iowa City, April 23 and 24, 1920: Minutes of the Meeting; Staff & Committee Reports

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PROCEEDINGS OF THE THIRTY-FOURTH ANNUAL SESSION

Held at Iowa City, April 23 and 24, 1920

The meetings of the thirty-fourth annual session of the Academy were held in Physics Hall at the State University. The session was called to order by President Stephens at one o'clock Friday afternoon. After the preliminary business meeting the exercises in connection with the presentation of the Calvin Memorial Portrait were held and the president then gave the Annual Address, on the subject of The Taxonomic Unit. Following the presentation of papers the Academy adjourned to the Englert Theatre where Professor Nutting showed the motion pictures of the University Barbados-Antigua expedition of 1918. Dr. Farr then exhibited a film showing the penetration of potatoes by the fungus *Pythium De Baryanum*. At 9:00 o'clock, after the usual dinners and a short program, the Academy attended a reception given by President and Mrs. Jessup at their home.

On Saturday morning following the sectional programs the final business session was held. Provision was made for the selection of an editorial committee, for the details necessary to complete affiliation with the American Association for the Advancement of Science and for the revision of the constitution.

REPORT OF THE SECRETARY

Members of the Iowa Academy of Science:

The past year has been one of steady growth for the Academy, as is witnessed both by the new members who have joined our society and by the continued high quality of our programs. The Academy is to be congratulated on the widespread interest which is taken in it by its membership, and it is probably not too much to say that this interest is responsible for the enviable position which our Academy holds among similar organizations of the United States and for the excellent reputation which it enjoys. Some of you read the article in *Science* (N. S., Vol. L, Dec. 5, 1919) on State Academies of Science by President David D. Whitney of the Nebraska Academy. You will recall that the tables there presented showed that among the strictly state Academies Iowa ranked first both in membership and in publications. They also showed that all of the sciences were well represented in our Academy. For convenience of reference the information contained in these tables is given below retabulated.

Name of academy	Classification of Members									Dues	Pages of publications	Annual state appropriation	Salary of officers	Interest
	Botany	Chemistry	Geology	Mathematics	Medicine	Physics	Zoology	Unclassified	Total					
California									300±	\$ 6.00		No data given		
Colorado		20	75	11	5	15		20	146	10.00	110±	None	\$600	Apathetic during war, but now interest is reviving
Connecticut	4	4	12	2	12	4	7	128	172	5.00	450	From private funds, \$1,530	None	Lively interest in publications, but a decided lack of interest in the meetings
Florida									88	1.00	None	None	None	Dead
Illinois	63	45	28	9	29	29	56	55	314	1.00	345±	\$1000	None	More lively than apathetic
Indiana	51	24	16	10	22	23	55	30	231	1.00	475	\$700	None	Good and getting better
Iowa	60	30	40	18	12	30	60	100	350	1.00	550-650	Printing	None	Lively
Kansas	20	30	10	10	12	12	10	79	173	1.00	400	\$1300	\$1000	Rather apathetic
Kentucky	13	24	12	9	4	13	12	9	96	1.00	None	None	None	Fairly lively
Michigan	55		30		21		45	33	208	1.00	300-400	Printing	\$75	Interest reviving
Nebraska	13	8	5	4	9	5	10	19	73	1.00	75	\$150	None	Lively interest at the annual meeting, but apathetic the remainder of year
New Mexico	3	3	3	5		3	2	6	25	.50	None	None	None	
North Carolina	13	13	4	4	1	6	15	24	80	1.00	125-150	None	None	Very lively
Ohio	66	6	40	4	16	29	79	18	258	1.50		From private funds, \$250	None	Fair
Tennessee	5	14	6	4		8	1	37	75	2.00	50±	None	None	Sixty percent alive
Utah	11	6	4	1	5	10	14	41	92	1.00	244	None	None	Rather apathetic
Wisconsin									350	1.00	500	\$1500	\$200	About fifty-fifty
Total	377	227	285	91	148	187	366	599	3031					

It is evident that so far as Iowa scientists are concerned the state Academy holds a place of large usefulness. The various national societies fill a need that nothing else can supply but for most of us the state Academy occupies a position of great value. It seems that what is perhaps an ideal condition is being attained in the affiliation of these two classes of organizations such as is now progressing in the case of the American Association for the Advancement of Science and the state and local academies of the Union. This matter was discussed by this Academy at its last meeting and the Executive Committee was authorized to perfect affiliation provided such union did not affect the internal organization of the Academy. At the time of the meeting of the American Association in St. Louis several conferences were held between representatives of the Association and of the academies. At these conferences the following plan of affiliation was tentatively decided upon, and was then accepted by the Council of the American Association and was to be presented to the various academies. Immediately following the meeting our Executive Committee was apprized of the action taken at St. Louis and unanimously ratified the proposal. The outline of the plan follows:

1. The Academy upon acceptance of the plan becomes thereby an affiliated Academy.

2. Membership in the Association is entirely optional with members of the Academies.

3. The combined annual dues of the two bodies amount to one dollar less than the sum of the two separate dues. In our case these dues would be five dollars for members of both bodies. This sum is to be collected by the treasurers of the academies and four dollars is to be forwarded to the secretary of the American Association for each member who is also a member of that body. For the current year one dollar each will be remitted to the Academy members who have already paid the Association dues when the secretary of the Association is informed that the Academy has accepted affiliation.

4. Affiliation has no effect upon the internal affairs of the academies. They remain entirely autonomous.

5. The academies are urged to assist in increasing the membership of the Association in order thereby to overcome the decrease in its income through the remission of a part of its dues, as well as to stimulate interest in its work and aims.

6. Each affiliated Academy is to be represented in the Council of the Association by one person to be chosen by the Academy itself.

7. Six months time is allowed for the Academies to consider and act on this question. All the Academies will hold meetings within that period.

Probably the chief value of this scheme of affiliation will be the resultant tying up of all the scientific organizations of the country into a more unified body. The probable outcome of the plan will be the formation of a Central States Division of the American Association similar to the Pacific Coast Division and the Southwestern Division.

It may be necessary to change our fiscal year to agree with that of the Association so that dues will be collected before the first of each year. Other details will have to be worked out as occasion arises. This

proposition will be submitted for your formal ratification at the closing business session.

There are sundry matters of policy to which the attention of the Academy is directed. It has been the custom of the Academy to pay for the extra cost of the binding in buckram of three hundred copies of the proceedings for distribution to its own members. This year the State Document Editor, Mr. Ora Williams, has kindly assumed that item and thus has relieved our treasury of a heavy burden. Mr. Williams has also assumed the cost of cutting up and stitching the separates which the Academy furnishes to the authors of papers and will doubtless continue the policy thus inaugurated. For several years past the authors of papers in the Proceedings have been supplied with separates by cutting up one hundred of the one thousand copies of the Proceedings allowed us by law. This reduced the cost of separates to the Academy very much but it also reduced the number of bound copies available. It is believed that very few authors really care for more than fifty separates of their papers and that if the other fifty copies are thus released to be bound they will serve a better purpose. The few members who need more than fifty separates usually have an additional number printed and so will not be put to any greater inconvenience.

It has seemed to the secretary that it would be well for the Academy to adopt as a fixed policy some plan whereby papers should be submitted to an editorial committee for approval before being published. The secretary has no means of adjudging the correctness or value of any paper and it might be that the plan suggested would still further enhance the quality of our publications. Such a plan is followed by some of the national societies and might be adopted advantageously by our Academy. In this connection may I not urge authors to give common names to the objects described in addition to the scientific names. I know of nothing more dreary or stultifying to interest than to struggle through page upon page of technical names without being able to get the least comprehension of the content of the paper. And yet that represents the situation with regard to some papers presented for publication. I suspect that the botanists are the greatest offenders in this matter. Our Proceedings go into most of the libraries of the state and can do much to make or mar our reputation. If they consist largely of unintelligible Latin words the common estimate of scientific people will be accentuated rather than corrected. Another suggestion in this connection: It seems to the secretary that the Academy would do well to encourage research and publication by noncollegians—that is persons interested in science who are not now connected with our educational system. From time to time such papers have appeared and the intent of this suggestion is to incite members of this class to increased activity.

The affiliation of the Academy with the American Association will tend to greatly increase the duties of the Treasurer, which are already onerous. It would seem only fair that some compensation should be given him to repay him for this added labor. We have never granted the treasurer any honorarium and it appears that now is an opportune occasion to establish the custom. Incidentally I may add that the Treasurer informs me that very few service men accepted the remission of their dues which

was granted them by the Academy. Even after being notified of the action of the Academy most of these men forwarded their dues as usual.

May I be permitted to offer the suggestion that there seems to be no further use for the two classes of membership known as Corresponding Fellow and Corresponding Associate. This division of membership is merely a residence distinction and seems to serve no valid purpose. Why not modify the constitution by omitting those parts which relate to these classes of nonresident members and then group all active members under the classes of Life Fellows, Fellows and Associates, with the designation of Honorary Fellow reserved for special distinction?

In closing let me congratulate the members of the Academy upon the auspicious circumstances surrounding this gathering and wish for them the success which is due their interest and activity.

Respectfully submitted,

JAMES H. LEES,
Secretary.

TREASURER'S REPORT

RECEIPTS

Cash on hand April 25, 1919.....	\$ 31.58
Transfer and entrance fees.....	34.10
Annual dues from members.....	211.00
Sale of Proceedings.....	8.08
	<hr/>
Total	\$284.76

EXPENDITURES

Programs for 33rd Annual Meeting.....	\$ 9.00
Stationery and supplies for secretary.....	9.00
Stationery and supplies for treasurer.....	7.60
Honorarium to secretary.....	50.00
To Miss Newman, sending out vol. XXV.....	10.00
Postage and clerical work for treasurer.....	17.50
Telephone service.....	1.10
Cash on hand, April 23, 1920.....	182.81
	<hr/>
Total	\$287.01
Less Ck. No. 12 in transit.....	2.25
	<hr/>
	\$284.76

A. O. THOMAS,
Treasurer.

April 23, 1920.

Report approved by Auditing Committee, Messrs BOND and JAQUES.

REPORT OF THE COMMITTEE ON THE SECRETARY'S REPORT

Your committee having read with care the excellent report of the Secretary of the Academy and having agreed unanimously on its various provisions, beg leave to present the following recommendations for appropriate action by the Academy:

1. Having been instructed to leave to another committee a critical study of the question of affiliation with the American Association for the Advancement of Science, which was recommended by the Secretary in his report, our instructions were followed. However, this committee in general favors the plan.

2. It is recommended that the Secretary be instructed to convey to Mr. Ora Williams, State Document Editor, the thanks of the Academy for his valuable coöperation in the matter of publication of the proceedings and that hereafter, but fifty copies of the proceedings, instead of one hundred, be cut up for the purpose of providing separates.

3. It is recommended that an Editorial Committee be established, to consist of one member for each science represented in the Academy, these members to be nominated by the Nominating Committee at each annual meeting, and each member having it as his especial duty to pass on, and edit all papers submitted for publication in the Science he represents.

4. Your committee recommends that beginning with the present fiscal year, the Treasurer be paid an honorarium of \$25 per annum.

5. It is recommended that in conformity with the suggestion of the Secretary, the Constitution be amended, according to the regulations governing constitutional amendments, to omit the classes of Corresponding Fellow and Corresponding Associate and to provide that membership shall consist of Honorary Fellows, Life Fellows, Fellows and Associates.

BEGEMAN, TROWBRIDGE, ALMY,
Committee.

REPORT OF THE COMMITTEE ON AFFILIATION WITH THE
AMERICAN ASSOCIATION FOR THE ADVANCE-
MENT OF SCIENCE

*PROPOSED AMENDMENTS TO THE CONSTITUTION
IOWA ACADEMY OF SCIENCE*

Under the plan of coöperation between the Iowa Academy of Science and the American Association for the Advancement of Science, which plan was approved by the Academy at the annual meeting in 1919, it becomes necessary to modify the statement of the constitution of the Academy relating to fees:

Accordingly it is proposed that Sec. 4 of the constitution of the Academy be amended so as to read, by adding to clauses relating to fees as it now stands:

Fellows and Associates who desire to avail themselves of the joint membership in the Iowa Academy of Science and the American Association for the Advancement of Science shall pay to the Treasurer of the Academy \$5.00 annually, \$4.00 of which sum shall be transmitted by the Academy to the American Association for the

Advancement of Science. For life fellows of the Academy the joint fee shall be \$4.00.

In consideration of the fact that the fiscal year of the American Association for the Advancement of Science begins October first and that the treasurer of the Academy must get the fees of all joint members to the national organization before the end of the calendar year:

Accordingly it is proposed that the constitution of the Academy be amended by adding to Sec. 4 the following:

The fiscal year of the Iowa Academy of Science shall end September thirtieth.

In consideration of the fact that the Iowa Academy of Science is entitled, through the proposed plan of coöperation, to one member on the council of the American Association for the Advancement of Science:

Accordingly it is recommended that Sec. 5 of the Constitution of the Academy be amended by the introduction of the following clause:

The fellow of the Iowa Academy of Science to represent the Academy on the Council of the American Association for the Advancement of Science shall be chosen annually by the Academy.

This year the representative is to be chosen by the Executive Committee.

LEES, THOMAS, WYLIE,
Committee.

REPORT OF THE COMMITTEE ON RESOLUTIONS

Your committee offers the following resolution:—

Resolved, *First* that the Secretary of the Iowa Academy of Science extend to the faculty and friends at Iowa City our expression of appreciation of the opportunities that have been so amply provided for the successful conduct of this the Thirty-fourth Annual Meeting, and of our appreciation of the cordial hospitality manifest in the reception by President and Mrs. Jessup and in all provision by the local fellows for our enjoyment and profit.

Second, That we especially recognize the two leading features that have rendered this meeting memorable; the presentation of the portrait of Professor Samuel Calvin to the State Historical Department, and the exhibition of moving pictures of the University of Iowa Barbados-Antigua expedition, exhibited by Professor Nutting.

Third, That the Secretary of the Academy express to Professor Charles A. Cumming our recognition of his remarkable skill of portrayal in the lifelike representation of our beloved and honored Professor Samuel Calvin.

JOHN L. TILTON.
B. SHIMEK.
H. W. NORRIS.
Committee

Resolutions of Mr. Bennett—

In view of the fact, that a government bounty law is in operation in the Territory of Alaska, whereby a continuous slaughter of our national bird, the American Bald Eagle, is going forward, which, in a brief period of time may make the species practically extinct.

Be It Resolved, that the Secretary be authorized to communicate with the Territorial Government of Alaska and the U.S. Federal Government, protesting against the unwise and alike unnecessary destruction of this fine and appealing wild life species, and respectfully requesting that this bounty law be repealed.

Referred to a committee consisting of Nutting, Norris, Stephens.

Whereas, it has come to the knowledge of the Iowa Academy of Science, that it is contemplated draining the artificial lake at the Amana Colonies, a stretch of water particularly important and inviting to all scientists and nature lovers, through the splendid lily growths that flourish there, unique because of their great rarity in the other sections of the United States,

Be It Resolved, that the chair appoint a committee of three to take this matter up with those interested in the drainage proposition, and, if possible, persuade the owner not to carry out his intention.

Referred to a committee with Professor Shimek as chairman.

Resolution by Mr. Hinman—

Whereas, the knowledge of sanitary water supply conditions in the state of Iowa, particularly in the smaller communities, is meager, due to the lack of any comprehensive survey of conditions throughout the state,

And Whereas, this information is of value to the State of Iowa, as a whole, in respect to the sanitation of the state, the development of adequate and proper water supplies, and the prevention of water-borne diseases,

Be It Resolved, by the Iowa Academy of Science that the Academy place itself on record as recognizing the urgent need of a general survey of water supply and sewage conditions throughout the state of Iowa, accompanied by thorough and complete laboratory and field inspection,

And Be It Further Resolved, that the President of the Academy be authorized to appoint one or more representatives of the Academy to meet with other representatives of official and scientific bodies, to formulate a plan for such a state-wide survey, such plan to be presented in the form of a bill before the coming legislature.

Referred to a committee consisting of Kay, Hinman and Norton.

REPORT OF THE COMMITTEE ON NECROLOGY

Your committee beg to report the death during the past year of Professor H. R. Werner of Iowa State College. A sketch of Professor Werner's life will be published in the Proceedings.

Signed

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

REPORT OF THE COMMITTEE ON CONSERVATION

We, the Committee on Conservation in the Iowa Academy of Science, beg leave to submit the following report:

- I. We are in accord with the efforts of the State Conservation Board in the following policies:
 1. We urge immediate action for the preservation of our streams and lakes because when once lost they can never be reclaimed as can our forests.
 2. We endorse the policy of plant and game preserves along the rough lands of our streams and wish to encourage members of the Iowa Academy of Science to use these areas for scientific investigation.
 3. We endorse the further purchase of lands for the use of State and County Parks.
 4. We endorse the policy of setting aside the state parks for bird shelters and other purposes which call for undisturbed conditions.

- II. We sanction and urge the open and closed season for hunting and fishing be revised and re-adjusted on a scientific basis to conform with the habits of the game animals concerned. We specifically call attention to the following:
 1. Quail should be protected for another term of 5 years.
 2. Hunting licenses should end on December 31 of each year.
 3. The use of ferrets be prohibited, or each should bear a license the same as a hunter using them or a gun.
 4. The prosecutor should receive half the fine after the cost is deducted for the prosecution of game violators.
 5. In no case should muskrats be killed or molested by shooting, and the season for trapping them should be between November 1 and March 1 inclusive.
 6. The open season for the fox squirrel should be from October 1 to November 15 inclusive. The limit should be five squirrels in one day.
 7. No hunting license should be issued to individuals under eighteen years of age.
 8. Trappers should be heavily licensed or each set trap bear a license tag.
 9. The closed season for spring fishing should be so regulated that it covers the spawning season of our game fish.

- III.
 1. We believe the State Legislature should protect and preserve for scientific investigation, the areas in which our Indian mounds and their burial grounds are located. Laws should be framed penalizing their destruction and the removal of relics therefrom.
 2. We sanction the purchase of such collections of Iowa Indian relics as have accurate data concerning their source.

- IV. We are in accord with the plant disease survey as carried on by the United States Department of Agriculture, and believe it will lead to the control of the great losses to our principal crops.

All of which is respectfully submitted by

B. SHIMEK

G. A. CHANEY

H. E. JAQUES

W. H. DAVIS, *Chairman*

G. B. MACDONALD

REPORT OF THE MEMBERSHIP COMMITTEE

For Transfer from Associate to Fellow: F. M. Baldwin, J. Wilbur Dole, A. R. Fortsch, Samuel W. Geiser, D. J. Glomset, Albert Hartzell, Grover Hawk, G. W. Heitkamp, P. S. Helmick, V. A. Hoersch, J. L. Horsfall, Royal E. Jeffs, F. M. McGaw, H. L. Maxwell, D. E. Merrill, Geo. C. Morbeck, Beryl Taylor Mounts, E. Laurence Palmer, T. H. Quigley, O. B. Read, Marie Rees, Ivan L. Ressler, W. E. Rogers, Walter H. Schoewe, Althea R. Sherman, W. D. Shipton, John E. Smith, O. M. Weigle, C. W. Wester, J. F. Yothers.

For Election as Fellows: Bird T. Baldwin, E. W. Chittenden, Amy Daniels, Clifford H. Farr, reinstated; M. E. Graber, C. W. Hewlett, Charles Reuben Keyes, Bruce D. Reynolds, H. L. Rietz, Jos. J. Runner, L. P. Sherman, V. A. Suydam, Guy West Wilson, reinstated; W. H. Wilson.

For Election as Associates: A. R. Abel, Mildred Adams, Beulah E. Aiken, A. C. Bailey, Geo. Bennett, H. G. Campbell, M. Ellis, D. C. Ensign, T. Erickson, F. A. Fenton, Louise Fillman, A. Foster, Chas. Gleim, Mrs. C. Gleim, Dorothy Hanna, A. N. Harbert, F. S. Harper, V. Heaton, W. A. Hemmings, E. Hickman, R. H. Holbrook, J. W. Howell, J. Paul Jones, D. Kreth, C. E. Lane, D. F. Lawson, M. Lindemann, Clifford Lohman, J. T. Lonsdale, O. E. Lowman, E. C. McCracken, Mark McDonald, I. Maizlish, H. C. E. Meyer, Wier R. Mills, H. Nicholson, Mrs. L. Nims, Glenn Nixon, Lloyd North, A. Ollivier, F. Ollivier, R. L. Parker, T. L. Patterson, Leroy Patton, W. G. Prottzman, Paul Ralston, Victor H. Ries, Jas. B. Shumaker, Chas. E. Snipps, Chas. J. Spiker, L. I. Stecher, Margaret Stolt, Leon S. Ward, Carl Weeks, F. M. Weida, J. S. Whitaker, N. J. Williams, Irving Wolff.

LIST OF MEMBERS AND VISITORS IN ATTENDANCE

Mildred Adams, Iowa City; Miss Alison E. Aitchison, Cedar Falls; Dr. Henry Albert, Iowa City; F. F. Almy, Grinnell; A. K. Anderson, Cedar Falls; M. F. Arey, Cedar Falls; R. P. Baker, Iowa City; A. L. Bakke, Ames; Bird T. Baldwin, Iowa City; F. M. Baldwin, Ames; E. D. Ball, Ames; Louis Begeman, Cedar Falls; George Bennett, Iowa City; Jacob Berger, Marengo; E. M. Berry, Iowa City; P. A. Bond, Iowa City; Leo W. Briggs, Indianola; Leo Brown, Marengo; C. C. Bunch, Iowa City; E. J. Cable, Cedar Falls; Henrietta Calhoun, Iowa City; Charles Carter, Fairfield; Henry S. Conard, Grinnell; Ira S. Condit, Cedar Falls; R. I. Cratty, Ames; Charles Crofutt, Iowa City; W. H. Davis, Cedar Falls; Mary Doherty, Cedar Falls; H. R. Dill, Iowa City; Dwight C. Ensign, Iowa City; C. I. Erickson, Iowa City; T. H. Erickson, Mount Vernon; John Evanoff, Iowa City; A. E. T. Fant, Iowa City; Clifford Farr, Iowa City; Burton Faust, Brooklyn; Louise Fillman, Iowa City; F. A. Fenton, Ames; T. J. Fitzpatrick, Lincoln, Nebraska; Alice Foster, Cedar Falls; R. A. French, Des Moines; H. A. Geauque, Indianola; Waldo S. Glock, Iowa City; Bert C. Gose, Indianola; M. E. Graber, Sioux City; J. E. Guthrie, Ames; G. W. Heitkamp, Dubuque; Edgar R. Harlan, Des Moines; Floyd S. Harper, Iowa City; Grover C. Hawk, Iowa City; P. S. Helmick, Iowa City; Wm. A. Hemmings, Mount Pleasant; W. S. Hendrixson, Grinnell; S. F. Hersey, Cedar Falls; C. W. Hewlett, Iowa City; J. J. Hinman, Jr., Iowa City; H. E. Jaques, Mount Pleasant; D. Warren Jewett, Des Moines; Rudolph Jordan, Iowa City; Harry M. Kelly, Mount Vernon; Charles R. Keyes, Mount Vernon; Charles N. Kinney, Des Moines; Nicholas Knight, Mount Vernon; Daniel Kreth, Wellman; C. E. Lane, Iowa City; James H. Lees, Des Moines; O. E. Lowman, Fayette; R. B. McClenon, Grinnell; E. C. McCracken, Ames; J. E. McCrory, Iowa City; J. V. McKelvey, Ames; R. Monroe McKenzie, Fairfield; Marie Miller; Elmer E. Moots, Mount Vernon; D. W. Morehouse, Des Moines; F. S. Mortimer, Iowa City;

Catharine Mullin, Iowa City; Helen Nicholson, Iowa City; M. A. Nordgaard, Grinnell; H. W. Norris, Grinnell; Lloyd North, Iowa City; W. H. Norton, Mount Vernon; C. C. Nutting, Iowa City; Arthur Oxley, Mount Pleasant; W. A. Owens, Mount Vernon; L. H. Pammel, Ames; Ralph L. Parker, Ames; Matilda Paul, Iowa City; J. N. Pearce, Iowa City; J. O. Perrine, Cedar Falls; P. V. Peterson, Cedar Falls; L. Charles Raiford, Iowa City; O. B. Read, Cedar Falls; J. F. Reilly, Iowa City; Ivan L. Ressler, Ames; Victor H. Ries, Cedar Falls; H. L. Reitz, Iowa City; E. W. Rockwood, Iowa City; B. C. Shearer, Fairfield; Leo. P. Sherman, Grinnell; B. Shimek, Iowa City; L. P. Sieg, Iowa City; Donald M. Smith, Ames; John E. Smith, Ames; Orrin H. Smith, Mount Vernon; Miss Clementina S. Spencer, Cedar Rapids; L. B. Spinney, Ames; M. A. Stainbrook, Brandon; F. C. Stanley, Oskaloosa; Lorle I. Stecher, Iowa City; T. C. Stephens, Sioux City; G. W. Stewart, Iowa City; Harold Stiles, Ames; Dayton Stoner, Iowa City; S. W. Stookey, Cedar Rapids; F. A. Stromsten, Iowa City; V. A. Suydam, Grinnell; Beryl Taylor, Iowa City; A. O. Thomas, Iowa City; John L. Tilton, Indianola; A. C. Trowbridge, Iowa City; Merriam H. Trytten, Decorah; Gertrude Van Wagenen, Iowa City; G. R. Wait, Iowa City; Otto Walter, Dubuque; E. E. Watson, Fairfield; H. J. Wehman, Iowa City; L. D. Weld, Cedar Rapids; H. F. Wickham, Iowa City; Ben H. Wilson, Mount Pleasant; Guy West Wilson, Fayette; Mabel C. Williams, Iowa City; Roger Wilson, Cedar Falls; R. B. Wylie, Iowa City; Albert Hartzell, Ames.

PRESENTATION OF THE CALVIN MEMORIAL PORTRAIT

To the Iowa Academy of Science

The Chairman of its Committee presents

THE CALVIN PORTRAIT

Unable to appear in person for the present program, I have been urged to present myself in some brief address. This I assure you is accomplished not without difficulty. In such attempt one misses so very much, if but in prospect, the happy concourse and sympathy of one's friends, the inspiration of fond, familiar scenes.

However, in the present instance, the task is lightened very much by virtue of the theme, and in the very purpose of our present simple, though unusual ceremony. Sad reminiscence, from fountains however full, may for this hour and presence be repressed, the significance of our whole proceeding so easily, so really a matter of felicitation.

As your committeeman, then, I beg to bring congratulations. This for several reasons. In the first place I venture to declare, as my settled judgment, that in the portrait before us, simply as a picture, we are indeed singularly fortunate. To be sure, in such a matter, each must form opinion for himself, but I expect for the days to come increasing compliment as the portrait becomes more and more familiar, not to members of the Academy only, but to observers generally.

I think it will be conceded now that our distinguished artist has given his subject careful and conscientious study; he has brought to our service long and patient labor, and a skilful brush. There were serious difficulties. Not only had the artist not known the subject of his effort, he had never *even seen him!* When we think of this, and reflect that for very form