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Proceedings of the Twenty-Sixth Annual Session of the Iowa Academy of Science: Staff & Committee Reports; Constitution of the Iowa Academy of Science as Amended to 1912; Program

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PROCEEDINGS OF THE Twenty-Sixth Annual Session of the Iowa Academy of Science

REPORT OF THE SECRETARY.

Fellows and Members of the Iowa Academy of Science:

It appears to the secretary that the Iowa Academy of Science has made substantial progress during the past year and that today its condition is the best at any time in its history of twenty-five years.

Volume XVIII of the proceedings is smaller than usual, probably due principally to the statement of the secretary that the number of papers presented at the meeting in 1911 was so large that the limit of 300 pages allowed the Academy by the state would be exceeded if all papers read should be printed in full. Too many of the authors responded to the suggestion and submitted abstracts. This year no suggestion will be made by the secretary unless it be to the effect that all papers recommended by the executive committee and by the executive council of the state be published even though the 300 page limit be exceeded. In the latter case the extra cost of printing of necessity would be borne by the Academy.

In the report of the secretary last year attention was directed to the fact that the membership of the Academy has increased until it will be necessary to increase the number of cloth bound copies of the Proceedings for distribution among the members. The report of the committee on secretary's report recommending that such provision be made was adopted, but effective action upon it has not been taken by the Academy. There are now 228 names on the roll; some 82 applications are on file. The number of copies of the Proceedings that are bound in cloth is 200. This number must be increased or some members must content themselves with copies bound in boards. By the action of the Academy in adopting the report of the committee on Quarter Centennial, which calls for the printing of 300 extra copies, partial provision is made for the needs of the current year, but some action is imperative looking toward the immediate future.

The mailing list for the distribution of the Proceedings to the members is made up from the treasurer's receipt book. If members do not receive copies it may be due to oversight on the part of the secretary, or, perchance, it may be due to the non-payment of annual fees.

During the past year, Miss Newman of the Geological Survey, who attends to mailing, has sent out over 200 letters to various libraries in the attempt

to place the Proceedings in all the libraries of the state where the volumes are wanted. As one result 56 libraries are removed from the list as no response was received even after a third letter had been sent. The library mailing list is now practically complete.

The president and the secretary have used the "follow up" system in presenting the aims and activities of the Academy to some 400 high school science teachers who are not members. Results have justified the effort. Approximately all science teachers of the state have received invitations to join our number. Yet one member of the Academy, by the judicious use of the telephone and by a little personal work among his friends, has obtained more applications than have been received as a result from the hundreds of letters sent out. Personal work on the part of the membership will do more toward extending the influence of the Academy than will thousands of letters written by the officers.

The first amendment proposed in the report of the committee to revise the constitution reads: "Insert in Sec. 4 'An annual fee of \$1 shall be required of each associate member.'" Such an amendment was adopted at the meeting in 1910. Its reappearance in the report of the committee is probably due to error in the data furnished by the secretary to the chairman. At the meeting last year an amendment was adopted under conditions that led the secretary to question whether or not its full import was comprehended. There was more or less hurry and confusion attendant upon preparation for adjournment when the vote was taken. The amendment is to the effect that a fee of \$1 shall be required from corresponding members.

Congratulations are the order of the day. The secretary wishes to congratulate the founders of the Academy upon their scientific ideals and upon their broad conception of the province of an Academy of Science among the scientists of the state.

Respectfully submitted,

L. S. Ross, *Secretary.*

TREASURER'S REPORT.

RECEIPTS.

Cash on hand April 28, 1911.....	\$204.51
Dues and initiation fees from members and fellows.....	194.00
Sale of Proceedings.....	10.77
Interest on deposits.....	8.18
Total	\$417.46

EXPENDITURES.

Expenses of lecturer, 25th meeting.....	\$ 52.41
Postage in sending letters to exchanges and libraries.....	4.00
Postage, typewriting and stenographic work for treasurer.....	9.06
Stationery for treasurer.....	5.00
For wrapping, tying and distributing Vol. 17.....	10.00

Programs, letterheads, envelopes, etc.....	29.25
Printing, binding, reprints, etc.....	80.25
Honorarium to Secretary Ross.....	25.00
Postage and incidental expenses of the secretary.....	20.65
Cash on hand April 26, 1912.....	181.84

Total\$417.46

Respectfully submitted,

G. F. KAY, *Treasurer.*

REPORT OF COMMITTEE ON MEMBERSHIP.

The committee recommends the following for election:

TRANSFERRED FROM LIST OF MEMBERS TO FELLOWS.

A. L. Bakke, Ames; Ada Hayden, Ames; Harriette S. Kellogg, Ames; N. D. Knupp, Iowa City; Frank C. Pellett, Atlantic; T. Van Hyning, Des Moines.

LIST OF FELLOWS.

L. C. Burnett, Ames; A. G. Field, Des Moines; J. N. Martin, Ames; W. H. Pew, Ames; A. C. Trowbridge, Iowa City; E. N. Wentworth, Ames.

LIST OF MEMBERS.

J. N. Albright, Des Moines; A. J. Anderson, Sioux City; Miss Helvig Anderson, Rockwell City; Fred Berninghausen, Eldora; B. W. Blanchard, Des Moines; P. A. Bond, Cedar Falls; I. J. Bradley, Aplington; John M. Brainard, Boone; John W. Budd, Des Moines; Charles Carter, Fairfield; Donald G. Cathcart, Sioux Rapids; Gladys L. Chew, Iowa City; I. B. Chittick, Des Moines; H. S. Coe, Ames; C. P. Colgrove, Cedar Falls; Ira S. Condit, Cedar Falls; Clara M. Cook, Coggon; B. J. Cornell, Atlantic; J. C. Cunningham, Ames; L. C. Denslow, Bondurant; Ernest O. Dieterich, Iowa City; H. S. Doty, Ames; F. L. Douglass, Des Moines; S. M. Early, Des Moines; Marshall D. Eastman, Cedar Rapids; S. T. Ellis, Des Moines; A. R. Ferguson, East Waterloo; S. B. Fracker, Ames; C. E. Francis, West Union; Rose G. Friedman, Knoxville; H. W. Grant, Waterloo; W. E. Hamilton, Des Moines; W. H. H. Hegeman, Northwood; H. O. Hirt, Fairfield; David M. Houghtelin, Spencer; T. D. Kirkpatrick, Cincinnati; George Kurtzwell, Altoona; M. Kurtzwell, Altoona; C. A. Larsen, Des Moines; F. A. Lawrence, Iowa City; M. M. Leighton, Iowa City; H. W. McCracken, Des Moines; F. E. McDonald, Sloan; Brad Mahana, Des Moines; Roy Massena, Creston; John Merkle, Des Moines; G. H. Messenger, Linden; Homer B. Miller, Des Moines; M. Mitchell, Des Moines; George H. Mount, Cedar Falls; Edna E. Morgan, Staunton; G. A. Muilenburg, Iowa City; M. N. T. Nelson, Des Moines; Charles N. Page, Des Moines; F. W. Paige, Fort Dodge; P. H. Parker, Des Moines; F. E. Pease, Des Moines; A. A. Prall, Des Moines; Miss Ina Preston, Cedar Rapids; Ida M. Reed, Cresco; Gertrude M. Rhodes, Winterset; J. M. Roland, Des Moines; S. W. Rowley, Adair; Allen M. Ruggles, Indianola; John Russell, Des Moines; A. E. Shaw, Des Moines; John C. Shaw, Des Moines;

W. J. Shirley, West Liberty; J. L. Slonaker, Newton; F. W. Sprague, Des Moines; C. E. Webster, Charles City; Carl Weeks, Des Moines; LeRoy T. Weeks, Newton; O. M. Weigle, Iowa City; T. H. Whitney, Atlantic; J. C. Wooley, Iowa City; John W. Wright, Knoxville.

THOSE IN ATTENDANCE AT THE FRIDAY SESSION.

Allison E. Aitcheson, Frank F. Almy, Myron S. Anderson, M. F. Arey, B. H. Bailey, J. A. Baker, R. P. Baker, C. O. Bates, A. S. Begg, F. C. Brown, E. J. Cable, Frances Church, Henry S. Conard, Ira S. Condit, R. E. Conklin, E. O. Dieterich, H. L. Dodge, A. G. Field, S. B. Fracker, Wesley Greene, Jessie P. Hastings, S. F. Hershey, E. A. Jenner, W. H. Kadesh, G. F. Kay, H. M. Kelley, C. R. Keyes, William Kunnert, J. H. Lees, M. M. Leighton, T. H. Macbride, H. W. McCracken, N. L. T. Nelson, C. C. Nutting, Herbert Osborn, L. H. Pammel, Edith F. Rusk, L. S. Ross, W. E. Sanders, Addison E. Sheldon, J. L. Slonaker, A. G. Smith, L. B. Spinney, F. C. Stanley, G. W. Stewart, H. E. Summers, J. L. Tilton, W. A. Titsworth, A. C. Trowbridge, T. Van Hyning, Henry B. Ward, O. M. Weigle, E. N. Wentworth.

REPORT OF THE COMMITTEE ON RESOLUTIONS.

Your committee begs leave to offer the following resolutions:

First. That we express our appreciation of the good will of our sister Academies of Science evident in their representation at this, the Twenty-fifth Anniversary of the organization of the Iowa Academy of Science, and our pleasure at having with us their representatives:

Herbert Osborn, Professor of Entomology, Ohio State University, representing the Ohio Academy of Science.

Henry B. Ward, Head of Department of Zoology, State University of Illinois, representing the Illinois Academy of Science.

Addison E. Sheldon, Lecturer in the University of Nebraska, and Secretary of the Nebraska Academy of Sciences, and representing the Nebraska Academy of Sciences.

L. H. Pammel, of Iowa State College, representing the St. Louis Academy of Science.

C. C. Nutting, of the State University of Iowa, representing the Davenport Academy of Science.

H. E. Summers of Iowa State College, and L. S. Ross of Drake University, representing the American Microscopical Society.

That we also express our appreciation of the letters of congratulation from the Chicago Academy of Science, and from Charles E. Bessey, of the University of Nebraska, formerly a scientific worker in this state.

Second. That we express especially to Professor Herbert Osborn of Ohio State University, the first president of the Academy, our delight in again having him among us and listening to his able and fitting address.

Third. That we express to the State Historical Department our appreciation of their kindness in opening for our use the attractive Art Gallery of the

Historical Building, and pledge to them our interest and support in maintaining and further developing the collections of which Iowa is justly proud.

Fourth. That we express to the President and the executive committee of this year our pleasure at the thorough manner in which the plans for this anniversary have been carried out; and our belief that there have been added to the literature of the state, not only papers of value for future reference in science itself, but also papers of historic value concerning earlier scientific workers, containing information that otherwise would be difficult to obtain.

Fifth. That we express our thanks to the local committee, consisting of Messrs. Kinney, Conklin and Lees, who made such excellent arrangement for the banquet that was so fully enjoyed last evening.

JOHN L. TILTON,
B. H. BAILEY,
HENRY S. CONARD.

RESOLUTIONS ON THE DEATH OF LORD LISTER.

Whereas, by the death of Lord Lister in London, the world of science has lost a most distinguished representative, therefore be it resolved,

First, That the Iowa Academy of Science would spread upon its record an appreciation of the immense service which the life and labor of Lord Lister brought to humanity at large; and,

Second, That the Academy recognizes in Lord Lister's career a high exemplification of the aim and spirit of scientific research.

THOMAS H. MACBRIDE,
L. H. PAMMEL,
L. S. ROSS,

Committee.

CONSTITUTION OF THE IOWA ACADEMY OF SCIENCE AS AMENDED
TO 1912.

Sec. 1. This organization shall be known as the Iowa Academy of Science.

Sec. 2. The object of the Academy shall be the encouragement of scientific work in the state of Iowa.

Sec. 3. The membership of the Academy shall consist of (1), fellows who shall be elected from residents of the state of Iowa, actively engaged in scientific work, of (2), associate members of the state of Iowa interested in the progress of science, but not direct contributors to original research, and (3), corresponding fellows, to be elected by vote from original workers in science in other states; also, any fellow removing to another state from this may be classed as a corresponding fellow. Nomination by the council and assent of three-fourths of the fellows present at any annual meeting shall be necessary to election.

Sec. 4. An entrance fee of \$3.00 shall be required from each fellow, and an annual fee of \$1.00 due at each annual meeting after his election. Fellows in arrears for two years, and failing to respond to notification from the treasurer shall be dropped from the Academy roll.

Sec. 5. (a) The officers of the Academy shall be a president, two vice-presidents, secretary and a treasurer, to be elected at the annual meeting. Their duties shall be such as ordinarily devolve upon these officers. (b) The charter members of the Academy shall constitute the council, together with such other fellows as may be elected at an annual meeting of the council by it as members thereof, provided, that at any such election two or more negative votes shall constitute a rejection of the candidate. (c) The council shall have power to nominate fellows, to elect members of the council, fix time and place of meetings, to select papers for publication in the proceedings, and have control of all meetings not provided for in general session. It may, by vote, delegate any or all of these powers, except the election of members of the council, to an executive committee, consisting of the officers and three other fellows to be elected by the council.

Sec. 6. The Academy shall hold an annual meeting in Des Moines during the week that the State Teachers' Association is in session. Other meetings may be called by the council at times and places deemed advisable.

Sec. 7. All papers presented shall be the result of original investigation, but the council may arrange for public lectures or addresses on scientific subjects.

Sec. 8. The secretary shall each year publish the proceedings of the Academy in pamphlet (octavo) form, giving author's abstract of papers, and if published elsewhere, a reference to the place and date of publication; also the full text of such papers as may be designated by the council. If published elsewhere, the author shall, if practicable, publish in octavo form, and deposit separate with the secretary, to be permanently preserved in the Academy.

Sec. 9. This constitution may be amended at any annual meeting by assent of a majority of the fellows voting, and a majority of the council, provided,

IOWA ACADEMY OF SCIENCE

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notice of proposed amendment has been sent to all fellows at least one month previous to the meeting, and provided that absent fellows may deposit their votes, sealed, with the secretary.

AMENDMENTS.

To Sec. 6. That hereafter the time and place of meeting shall be fixed by the executive committee, notice of the meeting to be sent out at least three (3) months beforehand. (Adopted Dec. 7, 1903.)

To Sec. 3. Insert after division (3) a division (4), "life members chosen from fellows."

To Sec. 4. Insert after the words "after his election," "A person may become a life member on the payment of \$7.00 after his election as a fellow, the transfer to be made by the treasurer. That said life membership fee be invested and that only the interest of the same be used for current expenses of the Academy." (Amendments to Secs. 3 and 4 adopted May 1, 1909.)

"An annual fee of \$1.00 shall be required from each associate member." (Amendment to Sec. 4 adopted April 30, 1910.)

"An annual fee of \$1.00 shall be required from each corresponding fellow." (Amendment to Sec. 4 adopted April 29, 1911.)

Change "Fellows in arrears, etc." to read "Fellows and associate members in arrears, etc." (Amendment to Sec. 4 adopted April 27, 1912.)

To Sec. 5. For section 5 (b) substitute: "The council shall be composed of the fellows in good standing."

Change Sec. 5 (c) to read: "The council shall have power to nominate and elect fellows, to elect associate members, fix time and place of meeting. It may by vote, delegate any and all of these powers, except the election of fellows, to an executive committee, etc."

Omit Sec. 6.

To Sec. 9. Omit "and a majority of the council." (Amendments to Secs. 5, 6, and 9 adopted April 27, 1912.)

Resolved, That hereafter a Committee on Membership be appointed by the incoming president at the meeting at which he is elected, which committee shall serve until their successors are appointed; that a by-law providing for this be incorporated by the secretary. (Adopted April 27, 1907.)

OFFICERS FOR 1912-13.

President, A. A. BENNETT, Ames.

First Vice-President, A. G. SMITH, Iowa City.

Second Vice-President, C. N. KINNEY, Des Moines.

Secretary, L. S. ROSS, Des Moines.

Treasurer—G. F. KAY, Iowa City.

ELECTIVE MEMBERS OF THE EXECUTIVE COMMITTEE.

B. H. BAILEY, Cedar Rapids.

H. S. CONARD, Grinnell.

E. J. CABLE, Cedar Falls.

PROGRAM.

The sessions of the Academy were held in the Art Gallery, Historical Building, Des Moines, beginning at 1:30 p. m., Friday, April 26. The business meeting was followed by the President's Address, on "The Mission and Spirit of the Pure Scientist."

The Anniversary banquet was held at the Chamberlain Hotel, 6:30 p. m., Friday. Brief responses were given by the visiting representatives from other scientific societies. At 8:09 o'clock the doors of the banquet hall were opened for all wishing to hear the Address on Charter Members, by Professor L. H. Pammel, and the Anniversary Address by Professor Herbert Osborn of Ohio State University.

Saturday forenoon session was in the Historical Building. The entire time was given to the presentation of papers on the "Development of the Sciences in Iowa During the Past Twenty-five Years."

- BotanyProfessor T. H. McBride
- ChemistryProfessor W. S. Hendrixson
- GeologyProfessor M. F. Arey
- PhysicsProfessor F. F. Almy
- ZoologyProfessor C. C. Nutting
- Final business meeting and adjournment.

SCIENTIFIC PAPERS.

- Behavior of Pollen Tubes in *Richardia Africana*.....James Ellis Gow
- An Anomalous OvaryJames Ellis Gow
- Aroid NotesJames Ellis Gow
- The Late Blight of Barley—*Helminthosporium Teres* Sacc.....A. L. Bakke
- Some Points on the Floral Development of Red Clover (*Trifolium Pratense*)
.....J. N. Martin
- (Introduced by L. H. Pammel.)
- Native Dye-Plants and Tan-Plants of Iowa with Notes on a Few Other
Species.....Harriette S. Kellogg
- The Genus *Lycoperdon* as Represented in the Herbarium of the State
University of Iowa.....N. D. Knupp
- Ferns and Liverworts of Grinnell and Vicinity.....H. S. Conard
- Secotium Agaricoides*, A Stalked Puffball.....H. S. Conard
- Simblum Sphaerocephalum* in Iowa.....H. S. Conard
- Notes on *Heteranthera dubia*.....R. B. Wylie
- Notes on Some Parasitic Fungi Chiefly from the Bitter Root Mountains.
.....L. H. Pammel and Ella Grace Harvey
- The Effect of Continued Grinding on the Water of Crystallization, (Second
Paper)Nicholas Knight
- Velocity Coefficients of the Reaction Between Ethyl Iodide and Silver Nitrate
in Ethyl and Methyl Alcohol and in Mixtures of These Solvents.....
.....O. M. Weigle and J. N. Pearce

The Solubility of Lead Sulphate in Aqueous Solutions of Sulphuric Acid.P. A. Jans and J. N. Pearce

The First Reported Petrified American Lepidostrobus is from Warren county, IowaJohn L. Tilton

Nether Delimitation of our Carbonic Rocks.Charles R. Keyes

Arid Plateau Plains as Features of Eolic Erosion.Charles R. Keyes

Sundry Provincial and Local Phases of the General Geologic Section of IowaCharles R. Keyes

The Salem Limestone and Its Stratigraphic Relations in Southeastern IowaFrancis M. Van Tuyl

The Origin of the Geodes of the Keokuk Beds.Francis M. Van Tuyl

A Study in the Cherts of the Osage Series of the Mississippian System.Francis M. Van Tuyl

A Method of Teaching Elementary Mineralogy.G. F. Kay

On the Dissimilarity of Light and Heat Action in a Certain Variety of SeleniumE. O. Dieterich

A Survey of the Water-Bearing Gravels at Estherville, Emmet County, IowaG. G. Wheat

Additional Evidence of Unconformity Between the Cedar Valley and Lime Creek Stages of the Devonian of Iowa.A. O. Thomas

Some Notes on the Aftonian Mammals.A. O. Thomas

Early Iowa Locality Records.B. Shimek

The Phase Difference at the Ears Produced by a Simple Source of SoundG. W. Stewart

A New Apparatus for Measuring Small Intervals of Time, Independent of Clock or Chronograph.F. C. Brown

Evidence Favoring the Radioactive Disintegration of Sodium as an ElementF. C. Brown

The Effect of Rupture by Abrasion on the Electrical Conductivity of SeleniumF. C. Brown

A Method of Determining Whether the Restoring Torque is Proportional to the Torsional Strain During the Vibration of a Torsional Pendulum.L. P. Sieg

The Influence of an Electric Current upon the Elasticity of Wires.H. L. Dodge

A Simple Laboratory Equipment for the Elementary Study of Alternating Currents.H. L. Dodge

Mollusca of Iowa.T. Van Hying

A Study in Insect ParasitismR. L. Webster

A Systematic Outline of the Reduviidae of N. America.S. B. Fracker

Notes on a Collection of Mammals from Northwestern Iowa.Alexander G. Ruthven and Norman A. Wood

Contribution to the Herpetology of Iowa, II.Alexander G. Ruthven

Food Habits of Red Tailed Hawk, Cooper's Hawk and Sparrow Hawk.F. C. Pellett

The Harvest Mouse in Iowa.F. C. Pellett

The Interpretation of the Cardio-sphygmogram and the Electro-cardiogram, Normal and Pathological.W. E. Sanders

The Source of the Chromaffine Cells of the Adrenals of the Pig.Mildred R. Yule

Notes on the Food of the Black Crowned Night Heron in Captivity.B. H. Bailey

The Occurrence of Melanism in the Broad Winged Hawk.B. H. Bailey

A Remarkable Flight of Broad Winged Hawks.B. H. Bailey