

# Proceedings of the Iowa Academy of Science

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1928

## Proceedings of the Forty-Second Annual Meeting of the Iowa Academy of Science, Held at Grinnell, May 5, 1928: Minutes of the Meeting; Staff & Committee Reports

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## PROCEEDINGS OF THE FORTY-SECOND AN- NUAL MEETING OF THE IOWA ACADEMY OF SCIENCE

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Held at Grinnell, May 5, 1928

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The forty-second annual meeting of the Academy was called to order at 10:30 a. m. Saturday, May 5, in the Auditorium of Alumni Recitation Hall of Grinnell College, with President Weld in the chair. It was moved and carried that the amendments to the constitution as read a year ago be adopted by the Academy.

The following reports were read and adopted on motion: report of the executive committee, treasurer's report, report of the auditing committee, report of the secretary, report of committee on secretary's report, and the report of the editor.

Dr. Pammel gave the report of the special committee on increase of the number of pages in the PROCEEDINGS, and recommended that the Academy publish a small circular explaining the necessity of this increase. The report was adopted and the printing of the circular was authorized.

The report of the AAAS representative and the report of the committee on financial arrangements for the Des Moines meeting of the AAAS were presented by Dr. Morehouse. It was moved and carried: (1), that the reports be adopted and that the State Budget Director be requested to include \$2,000 in the budget for bringing the AAAS to Iowa; and (2), that the incoming executive committee be empowered to appoint a small committee to present this matter to the Governor and to the Budget Director.

The biological survey committee presented its report through Dr. Pammel. One of the paragraphs in this report recommended that the Academy print a small circular explanatory of certain recommendations of this report. The report was adopted on motion.

The report of the conservation committee was read by Dr. Shimek. Among the recommendations contained in this report were included the following:

That a conservation information bureau be organized under the direction of the committee on conservation.

That the conservation committee be empowered to carry on legislative and educational campaigns in the interest of true conservation and that in this matter a sum not to exceed \$50 to be set aside for printing and clerical help.

That a special committee of three members to act jointly with the Iowa Conservation Association committee be appointed to select areas of outstanding value for scientific purposes in the state.

Dr. Kelly presented the report of the committee on history, which was adopted on motion, together with the further suggestion that the executive committee co-operate with this committee, especially by furnish-

ing it with more detailed instructions as to the scope of the work to be accomplished.

The reports of the membership committee by Dr. Thomas, the necrology committee by Dr. Knight, and the resolutions committee by Mr. Cratty were read and adopted on motion.

It was moved and carried unanimously that the Academy tender a vote of thanks to retiring president Weld for his efficient services of the past year.

Dr. Stewart presented the report of the committee on nominations, which was adopted on motion, and he was instructed to cast the ballot for the following:

- President — G. F. Kay, Iowa City.
- Vice-President — L. B. Spinney, Ames.
- Treasurer — A. O. Thomas, Iowa City.
- Editor — G. H. Coleman, Iowa City.
- Secretary — P. S. Helmick, Des Moines.
- AAAS representative — D. W. Morehouse, Des Moines.

The retiring section chairmen announced the names of the newly elected section chairmen as follows:

- Bacteriology — Henry Albert, M. D., State Board of Health, Des Moines.
- Botany — A. L. Bakke, Ames.
- Chemistry — Harry Lewis, Mount Vernon.
- Geology — S. W. Stookey, Cedar Rapids.
- Mathematics — C. W. Wester, Cedar Falls.
- Physics — R. A. Nelson, Mount Vernon.
- Psychology — W. S. Newell, Cedar Rapids.
- Zoology — H. E. Jaques, Mount Pleasant.

On motion of Dr. Stewart it was carried that the executive committee be asked to consider the advisability of encouraging the contributions of members to the Academy research fund.

Mr. Bennett moved that a day letter be sent to Dr. Wm. T. Hornaday and to the Hon. Gilbert N. Haugen in regard to the Norbeck Bill which concerns bird refuges.

Meeting adjourned on motion.

P. S. HELMICK,  
*Secretary.*

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#### MINUTES OF THE EXECUTIVE COMMITTEE

The executive committee was called to order at 10:30 A. M., Friday, May 4, in the Y. M. C. A. rooms at Grinnell College, by President Weld, who reported that Professor John E. Smith of Ames had been appointed to take the chairmanship of the Geology section due to the removal of Professor Wilder from the state, and Professor Whitman of Iowa City to take the chairmanship of the Chemistry section, to succeed Professor Taylor who was unable to serve.

President Weld announced the appointment of the following:

A representative to the flood control conference at Chicago, Professor Shimek, Iowa City.

A representative to the International Congress of Entomology, Professor H. H. Knight, Ames.

A committee to interview the Governor and the State Director of

the Budget for additional space in our PROCEEDINGS, Pammel, Ross, Lees, Helmick.

The treasurer announced the full payment of the research award of \$200 to Dr. Morehouse, and it was moved and carried that the report of Dr. Morehouse on this project at the general session of the Academy should fulfill the academy requirement of the report of the recipient of this award to the executive committee.

The executive committee approved the payment of an honorarium of \$50, and expenses to Professor Dunham Jackson, the speaker at the Friday Evening lecture.

It was the opinion of the committee that the proposed changes in the by-laws of the Academy were adopted at the last meeting, by the approval of the report of the committee on secretary's report, but that the proposed amendments to the constitution should be disposed of at this meeting.

The secretary announced that invitations for the next meeting of the Academy had been received from Iowa Wesleyan College at Mount Pleasant, and from Parsons College at Fairfield. (Subsequent to the meeting, invitations were also received from Cornell College, at Mount Vernon, and from Penn College, at Oskaloosa.)

Three requests for financial aid were read, and it was moved and carried that the following research grants be disbursed from the Academy research fund, it being understood that these moneys can be paid from normal sources without drawing upon the reserve funds of the Academy:

Twenty-eight dollars to Professor John E. Anderson, Botany Department, Coe College, Cedar Rapids, for the purchase of Petri dishes and special tubes for the study of soil fungi of Linn county.

Eighty dollars to Professor Thomas C. Poulter of Iowa Wesleyan College, Mount Pleasant, for the purchase of an electric grinder for grinding a high pressure cylinder for use in investigations concerning the reactions involved in a system of sulphuric acid and zinc under pressures of 16000 atmospheres.

Fifty dollars to Professor Harry F. Lewis of Cornell College, Mount Vernon, to purchase chemicals for the problem of the quantity production of nonane, which is needed in large quantities for fundamental research in organic chemistry.

Dr. Morehouse had been invited to report on the formation of an Astronomy section of the Academy, and recommended that at the present time a separate section be not formed.

A bill of about \$8 incurred in special Academy committee work was allowed to Professor Pammel.

Moved, seconded and carried that the report of the committee on research careers in science be referred back to that committee for further details, with a specific request for estimates of cost. The hope was expressed that the committee may be able to accomplish the publication of some of the "Career Series" in science, before the next meeting.

Dr. Morehouse reported for the committee on financial arrangements with the AAAS that the AAAS required a guarantee of \$2,000 from the Academy in order that the AAAS would hold its meeting in Iowa. Moved and carried that it is the concensus of opinion of this committee that the report of the committee on financial arrangements with the AAAS should receive the favorable consideration of the Academy.

On motion meeting adjourned.

P. S. HELMICK,  
*Secretary.*

## THE REPORT OF THE SECRETARY

This is the second year of operation of the Academy Research Grant plan. For most of our members it is a needless repetition to remark that this research grant is made possible because the American Association for the Advancement of Science gives to the Iowa Academy of Science a sum of 50 cents per year for each Iowa Academy member who is also an American Association member.

Last year, a sum of about \$200 was at hand for the Academy Research Grant, because there was a two year accumulation of the American Association allowance in the hands of our Treasurer. This year, as you already know, there will be available a sum of only about \$150, although at this meeting the Academy has received more applications for grants than last year; and all these requests are from research workers in the independent colleges of the state.

Our Academy constitution says that the object of our organization ". . . is the encouragement of scientific work in the state of Iowa." Hence, I believe that in the award of research grants, the Academy is carrying out its authorized purpose in a very genuine way. It is my conviction that a state Academy with the history and membership of the Iowa Academy, should have a larger yearly sum than \$100 for the encouragement of research.

Iowa Academy members who are not also American Association members can increase this A. A. A. S. allowance by joining the A. A. A. S., — the \$5 A. A. A. S. entrance fee is remitted for Academy members. Thus if all our 557 Iowa Academy members were A. A. A. S. members, our research fund would amount to over \$275 yearly.

Another very effective method of maintaining an adequate Academy Research Fund would be through the establishment of an Academy Endowment Fund.

Reference may here be made to the Endowment Fund of the Virginia Academy of Science. The Virginia Academy was organized in 1924, and in 1927 there were 364 members enrolled. In 1927 over \$8,000 had been subscribed to the Endowment Fund, and in his annual address, President Horsley<sup>1</sup> expressed the hope that in a short time the endowment would reach at least \$25,000. This trust fund is used for: (1), a reward for a particularly meritorious paper based on research; (2), expenses of the Committee on Research; and (3), grants for research work which is worthy and needs assistance. Apparently several Virginians have paid \$1,000 to the Virginia Academy, and have been designated in the membership lists as *patrons*.

That the Iowa Academy of Science may be of even greater service to scientific endeavor in Iowa, I would strongly recommend that the Academy thoroughly investigate the possibilities of an Academy Endowment Trust Fund, the income to be used for the encouragement of scientific work in the state.

Respectfully submitted,  
P. S. HELMICK,  
*Secretary.*

<sup>1</sup> Proceedings, The Virginia Academy of Science. 1926-27. p. 26.

REPORT OF THE TREASURER

May 4, 1928

RECEIPTS

Cash on hand, May 7, 1927.....	\$ 76.59
Received from dues.....	430.31
Received from entrance fees, Fellows.....	22.00
Received from entrance fees, Associates.....	83.58
Received from transfer fees, Associates to Fellows.....	16.00
Received from sale of Proceedings.....	5.00
Transferred from Savings Account.....	200.00
Refund from A. A. A. S., Oct. 1927 allotment.....	6.00
Interest, one year on Strauss Bond.....	30.00
Total.....	<u>\$869.48</u>

DISBURSEMENTS

Book for registration committee, Iowa City meeting.....	\$ .40
Tickets for banquet, Iowa City meeting.....	3.50
To G. H. Coleman, editor, postage, supplies, clerical help, etc.....	35.05
To P. S. Helmick, Secretary, postage and supplies.....	90.29
To A. O. Thomas, Treasurer, postage, supplies, and clerical help..	54.65
Refund to bank, account of returned checks.....	2.06
Service charge on out-of-town checks.....	6.33
Transferred to Savings account.....	300.41
Honorarium to G. H. Coleman, Editor.....	50.00
Honorarium to P. S. Helmick, Secretary.....	50.00
Honorarium to Nellie E. Newman, distrib. Vol.....	25.00
Honorarium to A. O. Thomas, Treasurer.....	50.00
Allowance to Dr. D. W. Morehouse, Academy research fund.....	200.00
Cash on hand in bank, May 4, 1928.....	1.79
Total.....	<u>\$869.48</u>

ASSETS

May 4, 1928.

One Strauss bond, 6%.....	\$ 500.00
In Savings account.....	903.64
Accrued Interest on Savings account to May 1.....	15.05
Cash on hand.....	1.79

Total.....\$1420.48

The May 1928 allotment A. A. A. S. has not yet been made; it will amount to about \$100.00. One year ago this had been made prior to the Treasurer's annual report.

A record of Refunds from A. A. A. S. under present plan

1926. March 23.....	\$ 93.50
October 21.....	6.50
1927. May 5.....	104.00
October 11.....	6.00
	<u>\$210.00</u>

Disbursements from this fund: 1928, April 12, to President Morehouse, as per recommendation of Executive Committee as award to aid in work on dark nebula in Cygnus.....\$200.00

A. O. THOMAS, *Treasurer.*

## REPORT OF THE EDITOR

Mr. President and Members of the Iowa Academy of Science:

I wish to express my appreciation to the members of the Iowa Academy of Science for the assistance which many of them have so willingly given in the preparation of Volume XXXIV of the Proceedings.

This year, as last, the number of pages in the Proceedings has been limited by the State Printing Board to less than the usual 400. This has made necessary a very large reduction in the material which had been presented for publication. In several sections the material was more than twice that which could be included. This reduction was made with the advice of the Section Chairmen and so far as possible in accord with the recommendations which have been adopted by the Academy in previous years. In several cases, however, very excellent papers could not be included, due simply to lack of space. I wish particularly at this time to express my appreciation to those authors who so courteously allowed their papers to be withheld when this was necessary.

President Weld has appointed a special committee to interview the Governor and the Budget Director relative to an increase in the size of the Proceedings. Professor Pammel, the chairman, will present the report of this committee to the Academy. It is the opinion of the Editor that the size of the Proceedings should be increased to at least 500 pages in order to adequately meet the needs of the Academy.

Nearly all of the material for Volume XXXIV was given to the printer last August and it was hoped that this volume might be published before this meeting. This has not been possible. The corrected page proof and the index are, however, now in the hands of the printer and it is my understanding that it will not be longer delayed.

If the manuscript could be given to the printers earlier in the summer, which is a less busy season for them than the fall, it would be possible to have the Proceedings published considerably earlier in the year. This would necessitate prompt action on the part of all Section Chairmen in sending material to the Editor on or before June 20, following the meeting.

G. H. COLEMAN,  
*Editor.*

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 REPORT OF THE COMMITTEE ON HISTORY

Your committee on History recommends

1. That the succeeding committee on this matter receive from your body more specific instructions in regard to the scope of this work and the time thought desirable for its completion.
2. That such committee be instructed and empowered to secure the best possible authorship, either individual or conjoint.
3. That some limited expenditure of funds be allowed, especially in the collection of materials, and in necessary secretarial assistance.

HARRY M. KELLY  
FRANK F. ALMY

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 REPORT OF THE COMMITTEE ON RESOLUTIONS

Your Committee of this Academy meeting offers the following resolutions:

First. In behalf of the officers and members of the Iowa Academy of Science we extend to President and Mrs. Main and the Faculty and

friends of Grinnell College our appreciation of the opportunities which have been so amply provided for the successful conduct to our profit and enjoyment of our forty-second annual meeting.

Second. That we give our hearty support to furthering the success of the coming meeting of the American Association for the Advancement of Science to be held in Des Moines during December, 1929.

Third. That we extend to Doctor Conard and his assistants of the local Committee our thanks for the very efficient services they have rendered in our behalf.

E. J. CABLE  
R. I. CRATTY

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#### REPORT OF THE COMMITTEE ON SECRETARY'S REPORT

Your committee were unable to meet at Grinnell, but Doctor Houser and Mr. Wilson wrote that they were in favor of the recommendations made—namely that the Iowa Academy should have more than \$100 annually for the encouraging of research, that more members of the Iowa Academy should be encouraged to join the A. A. S. and thus help swell the research fund, and especially that the Academy should itself support and increase the research fund from its own resources. Surely some part of the Academy's regular income could well be spent for this purpose and probably a larger fund could be raised, both within and without the Academy membership. Your committee hope that this avenue of usefulness will be opened wider by the goodwill and efforts of our organization, if not immediately then in the near future.

G. L. HOUSER  
B. H. WILSON  
H. S. DOTY  
J. H. LEES, *Chairman*.

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#### REPORT OF MEMBERSHIP COMMITTEE

##### FELLOWS

Anderson, John E., Cedar Rapids; Conkwright, N. B., Iowa City; Ward, Lewis E., Iowa City.

##### TRANSFER FROM ASSOCIATES TO FELLOWS

Chamberlin, Thomas K., Fairport; Collins, E. H., Fairfield; Culbertson, J. B., Mount Pleasant; Douglass, L. C., Grinnell; Ehinger, C. E., Keokuk; Erskine, A. W., Cedar Rapids; Glock, Waldo, Columbus, O.; Goshorn, Arthur, Winterset; Gwynne, C. S., Ames; Jeffers, D. S., Ames; Kubichek, W. F., Cedar Rapids; Lambert, W. V., Ames; Mills, Weir R., Pierson; Nelson, R. A., Mount Vernon; Newell, W. S., Cedar Rapids; Platz, G. A., Lamoni; Putnam, Edward K., Davenport; Sidwell, Raymond, Lubbock, Tex.; Smith, F. F., Storm Lake; Stoddard, George D., Iowa City; Swingle, W. W., Iowa City; Tuttle, F. Mae, Osage; Werkman, C. H., Ames; Whitney, J. D., Iowa City.

##### ASSOCIATES

Aikman, J. M., Ames; Baskerville, Ella, Dubuque; Bay, Harry X., Iowa City; Beane, B. H., Le Grand; Benson, Ralph L., Toledo; Butterfield, John,



Cedar Rapids; Chapman, O. W., Pittsburg, Kan.; Clarke, Cornelia, Grinnell; Creager, Don B., Iowa City; Curtis V., San Antonio, Tex.; Davidson, Ross W., Jr., Columbus, Kan.; Deadman, Clara V., Oskaloosa; Diehl, George, Grinnell; Doolittle, H. H., Des Moines; Eaton, George D., Creston; Endres, E. A., Westbrook, Conn.; Evans, Gaynor, Cedar Rapids; Gabrielson, Ray, Dayton; Gibson, Ruth, Cedar Rapids; Gillham, Bert, Rockford; Goldberg, M. G., Des Moines; Goldberg, Yale, Des Moines; Goodrich, Gladys, Grinnell; Haldeman, H. H., Indianola; Holloway, Ancil D., Fairmount, Ind.; Holt, Edw. L., Blanchard; Housel, Frances, Tabor; Hull, Herschel L., Lacey; Husband, Ivy C., Iowa City; Laudon, I. R., Iowa City; Loomis, W. E., Ames; Lukensmeyer, Arthur, Eagle Grove; McCreary, Don, Mount Pleasant; Miles, Inez, University Park; Minor, L. L., Mason City; Mo, Paul, Oskaloosa; Nielsen, J. T., Iowa City; Overstreet, P. C., University Park; Padendorf, Vada, Little Sioux; Paxton, Elmer, Ollie; Pease, G. R., Oskaloosa; Riser, Arthur, Blackwell, Okla.; Rogers, Myra G., Dubuque; Rothfus, L. J., Des Moines; Sargent, Louisa G., Grinnell; Schott, Ralph G., Ames; Sewell, W. E., Auburn, Ala.; Smith, F. B., Ames; Squire, Ralph, Des Moines; Taylor, Della, Cedar Rapids; Tiffin, J. H., Iowa City; Ware, L. A., Iowa City; Ware, Robert, Mount Pleasant; Watson, Geo. R., Iowa City; Whitacre, Margaret, West Liberty; Whitely, Robt. W., Oskaloosa; Wieters, A. H., Des Moines; Williams, H. M., Iowa City; Wilson, W. B., Tulsa, Okla.; Wood, L. W., Ames; Yager, Chas. B., Iowa City; Young, C. W., Iowa City; Zuehl, B. F., Le Mars.

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MEMBERS AND VISITORS IN ATTENDANCE

Aikman, J. M., Ames; Albert, Henry, Des Moines; Almy, Frank F., Grinnell; Anderson, John E., Cedar Rapids; Arnold, Orla, Grinnell; Austin, S., Iowa City; Auten, Aime Lois, Grinnell; Baker, J. Allen, 605 N. C., Indianola; Baker, M. P., Ames; Bakke, A. L., Ames; Bainter, L. E., Grinnell; Banks, Ralph, Grinnell; Bartow, Edward, Iowa City; Barner, John L., Webster City; Baskerville, Ella, Dubuque; Beagle, C., Cedar Falls; Beebee, Frederick, Iowa City; Begeman, L., Cedar Falls; Beinwanger, Geo. W., Iowa City; Belanski, C. T., Iowa City; Benedict, A. A., Ames; Benjamin, G. G., Iowa City; Bennett, George, Iowa City; Best, Myrle, Grinnell; Blagg, Betty, Ames; Brandt, A. E., Ames; Brederdorf, Fred W., Ames; Brown, A. E., Cedar Falls; Brown, F. E., Ames; Buchanan, J. H., Ames; Burkey, L. A., Ames; Butler, L. W., Ames; Cable, E. J., Cedar Falls; Carlson, C. S., Iowa City; Carr, A. B., Indianola; Castetter, E. F., Ames; Chamberlain, Eunice, Mount Vernon; Chapman, O. W., Ames; Chittenden, E. W., Iowa City; Christopherson, H. A., Ames; Clark, Anabel E., Mount Pleasant; Clark, Norman A., Ames; Clarke, Cornelia, Grinnell; Collins, E. Hobart, Fairfield; Colpitts, Julia T., Ames; Comstock, Clifford L., Grinnell; Conard, Henry S., Grinnell; Conkwright, N. B., Iowa City; Copeland, F. E., Univ. Park; Copeland, Paul, Iowa City; Cornog, Jacob, Iowa City; Cratty, R. I., Ames; Crownsea, Carroll, Grinnell; Cruisimberry, Warner A., Standard Chemical Co., Des Moines; Culbertson, J. B., Mount Pleasant; Curtis, V., Ames; Daddow, Wilbur T., Iowa City; Daniells, Marian E., Ames; Davis, Watson M., Iowa City; Derhl, George, Grinnell; Denman, W., Iowa City; Dewitt, Jack, Iowa City; Dillé, Glenn H., Iowa City; Douglass, Donald, Grinnell; Douglass, L. C., Grinnell; Eldridge, John A., Iowa City; Ellett, A., Iowa City; Ellis, O. H., Des Moines; Emmons, C. W., Indianola; Evans, J. E., Ames; Evvard, John M., Ames; Finkenbinder, E. O., Cedar Falls; Fitzpatrick, T. J., Lincoln, Nebr.; Fleming, Annie W., Ames; Foster, Mildred, Grinnell; Freie, A. J., Iowa City; French, R. A., Dubuque; French, Mrs.

Raymond, Dubuque; Fritz, Martin F., Ames; Fulmer, Ellis I., Ames; Genung, Leo B., Mount Vernon; Gilman, Henry, Ames; Goldberg, Milton J., Des Moines; Goldberg, Yale, Des Moines; Goodrick, Gladys, Grinnell; Goshorn, Arthur, Winterset; Goshorn, Mrs. Arthur, Winterset; Gouwens, C., Ames; Griffin, R. Austin, Iowa City; Gwynne, C. S., Ames; Hagen, Albert G., Iowa City; Haines, Katriner, Grinnell; Haldeman, Harry H., Indianola; Hardy, A. J., Iowa City; Harris, Murray, Univ. Park; Harris, Stanton A., Ames; Hauge, Ingwald B., Iowa City; Hayden, Ada, Ames; Hellwig, A., Cedar Rapids; Helmick, P. S., Des Moines; Helmick, Mrs. P. S., Des Moines; Hersey, S. F., Cedar Falls; Hinman, Jack J., Jr., Iowa City; Hixon, R. M., Ames; Holloway, Ancil D., Oskaloosa; Hoskins, L. A., Univ. Park; Howell, M. Jean, Waterloo; Howland, L. H., Iowa City; Hull, Herschel, Oskaloosa; Huntley, Mark B., Chariton; Husband, Ivy C., Iowa City; Husong, R. V., Ames; Ingalls, E. E., Mount Pleasant; Jaques, H. E., Mount Pleasant; Jenks, Harry N., Ames; Jones, Martha, West Branch; Kadesch, W. H., Cedar Falls; Kay, G. F., Iowa City; Kearney, Dora E., Cedar Falls; Kelly, Harry M., Mount Vernon; Kinney, C. N., Des Moines; Klise, Nira M., Ames; Knight, Nicholas, Mount Vernon; Krieder, Orlando, Lineville; Kubichek, W. F., Cedar Rapids; Kunerth, Wm., Ames; Langston, A. W., Grinnell; Lantz, C. W., Cedar Falls; Lapp, C. J., Iowa City; Lauer, Olobb R., Ames; Leamer, Frank D., Iowa City; Lees, James H., Des Moines; Levine, Max, Ames; Lewis, H. F., Mount Vernon; Lieberknecht, Priscilla, Grinnell; Linton, Clarissa Clark, Iowa City; Linton, C. S., Iowa City; Loehwing, W. F., Iowa City; Lonergan, M. J., Des Moines; Long, Draper L., Grinnell; Longnecker, K. P., Ames; Loomis, W. E., Ames; McClean, R. B., Grinnell; McCleskey, C. S., Ames; McCoy, Dorothy, Iowa City; McCoy, Neal H., Iowa City; McGaw, F. M., Mount Vernon; McKelvey, J. V., Ames; Macy, C. H., Ames; Maizlish, Mrs. Yetta V., Iowa City; Malin, Gladys A., Dubuque; Martin, G. W., Iowa City; Martin, J. N., Ames; Marts, Ralph O., Iowa City; Mehlin, Theodore G., Des Moines; Melhus, I. E., Ames; Meyer, Alfred W., Iowa City; Meyer, Herbert A., Iowa City; Miles, Inez, Univ. Park; Miller, Edwin, Mount Pleasant; Miller, H. W., Des Moines; Miller, P. T., Iowa City; Milleson, Helen K., Winterset; Mills, Adelia, Mount Pleasant; Morehouse, C. A., Ames; Morehouse, D. W., Des Moines; Morris, Mark, Ames; Morrow, Roger M., Northfield, Minn.; Mortimore, Roy H., Iowa City; Neff, I. F., Des Moines; Nelson, Roy A., Mount Vernon; Neuman, E. W., Iowa City; Newell, W. S., Cedar Rapids; Norgaard, M. A., Northfield, Minn.; Norlie, O. M., Decorah; Norris, H. W., Grinnell; Oelke, W. C., Jr., Grinnell; Olson, Harry F., Iowa City; Overstreet, Paul C., Univ. Park; Palmer, Gladys, Iowa City; Pammel, L. H., Ames; Parish, Jessie, Cedar Falls; Parish, Margaret, Grinnell; Paxton, Elmer, Oskaloosa; Pearce, J. N., Iowa City; Peterson, Ben H., Cedar Rapids; Phillips, D. P., Cedar Falls; Plagge, H. J., Ames; Popoff, Stephen, Iowa City; Poulter, Thomas C., Mount Pleasant; Quam, G. N., Cedar Rapids; Raiford, L. Chas., Iowa City; Rath, H. Earl, Cedar Falls; Read, O. B., Cedar Falls; Reilly, John F., Iowa City; Rider, Arthur J., Des Moines; Rietz, H. L., Iowa City; Risser, Arthur C., Grinnell; Risser, Paul, Grinnell; Roberts, Maria M., Ames; Rockenbach, Etelka, Mount Pleasant; Rogers, Elizabeth, Mount Pleasant; Rogers, Myra G., Dubuque; Root, A. E., Iowa City; Ruckmick, Christian A., Iowa City; Russell, Paul, Univ. Park; Sales, Fred J., Des Moines; Saleste, P. H., Des Moines; Sargent, Louisa, Grinnell; Savage, D. F., Salem; Schmidt, Clare, Des Moines; Schott, Ralph, Ames; Seeds, Alice, Mount Pleasant; Sharnborg, Orville, Grinnell; Sherman, C. Carroll, Iowa City; Shimek, B., Iowa City; Shuttleworth, Frank K., Iowa City; Smith, E. R., Ames; Smith, Grant W., Grinnell; Smith, Helen F., Ames; Smith, John E., Ames; Smith, Lothrup, Grinnell; Smith, Scott W., Jr., Cedar Rapids; Snedecor, G. W., Ames; Solomon, E. I., Ames; Spinney, L. B., Ames; Starbuck, Anna D., Iowa City; Starbuck, Edwin D., Iowa City; Stewart, G. W., Iowa City; Stiles, H., Ames; Stoddard, George D., Iowa City; Stookey, S. W., Cedar Rapids; Sylvester, R. H., Des Moines; Talbot, Wm. H., Iowa City; Talbott, Robt. F., Grinnell; Tester, A. C., Iowa City; Thomas, A. O., Iowa City; Thomas, Theodore, Grinnell; Thompson, Essie

May, Mount Vernon; Thompson, Geo. E., Ames; Tiffin, Joseph, Iowa City; Trimble, O. C., Iowa City; Tyndall, E. P. T., Iowa City; Verbeck, L. M., Grinnell; Wang, J. H., Grinnell; Ward, L. E., Iowa City; Ware, Lawrence A., Iowa City; Ware, R. E., Mount Pleasant; Watson, E. E., Cedar Falls; Watson, Geo. R., Iowa City; Weld, LeRoy D., Cedar Rapids; Wellman, Beth, Iowa City; Wells, Grace, Mount Pleasant; Welter, W. A., Ames; Werkman, C. H., Ames; Wester, C. W., Cedar Falls; Whitely, Robert, Oskaloosa; Whitman, J. L., Iowa City; Whitney, John D., Iowa City; Wieters, A. H., Des Moines; Williams, H. M., Iowa City; Willson, L. H., Ames; Wilson, Guy West, Oskaloosa; Wissink, G. M., Ames; Wood, L. W., Ames; Woods, Gladys M., Mount Pleasant; Woods, Roscoe, Iowa City; Wylie, C. C., Iowa City; Wylie, R. B., Iowa City; Zahl, Harold A., Iowa City.