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Proceedings of the Fifty-Second Annual Meeting of the Iowa Academy of Science, Held at Sioux City, April 15 and 16, 1938: Minutes of the 1938 Meeting; Staff & Committee Reports

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PROCEEDINGS OF THE FIFTY-SECOND ANNUAL MEETING OF THE IOWA ACADEMY OF SCIENCE

Held at Sioux City, April 15 and 16, 1938

MINUTES OF THE 1938 MEETING

The fifty-second meeting of the Iowa Academy of Science was called to order by President A. C. Trowbridge in the Chapel of Morningside College at 1:00 p.m., Friday, April 15, 1938. The following committee appointments were announced:

Necrology: Reitz, Hayden, Firkins, Charles.

Resolutions: K. A. Stiles, A. L. Bakke, J. A. Larson, Liggett.

Nominations: Kadesch, Lauer, Sherman, E. H. Collins.

After a welcome from Dr. Earl A. Roadman, President of Morningside College, the general program of papers was presented, followed by adjournment until 11:00 a.m., Saturday, for the business meeting.

The business meeting of the Academy was called to order by President Trowbridge at 11:00 a.m., in the Chapel of Morningside College.

The reading of the minutes of the Dubuque meeting was dispensed with. The report of the Executive Committee was read and adopted by motion. The motion carried with it the change in the by-laws necessitated by the erection of the section on Science-teaching. The reading of the reports of the Secretary-Treasurer, the Auditing Committee, and the Editor was then presented.

The report of the Biological Survey Committee was read. A motion that the Academy approve the loan of the publication fund to the chairman of the Committee on Biological Survey to be used in furthering the publication of a key to the plants of Iowa was carried.

Reports were read from the Committees on Conservation, High School Relations. The Membership Committee's report carried the names of 49 new associates and 21 fellows who were duly elected to membership.

The report of the Committee on Necrology was read and adopted by a rising vote in respect to the members commemorated. They were: Charlotte King, P. E. Brown, E. O. Finkenbinder, Samuel Corey and R. P. Baker.

The report of the Committee on Resolutions was read and approved.

The report of the Committee on Nominations carried the following nominations:

President, J. N. Martin, Ames.

Vice President, R. B. McClenon, Grinnell.

Secretary-Treasurer, J. C. Gilman, Ames.

Editor, F. W. Nichols, Ames.

The secretary was instructed to cast the ballot of the Academy for their election.

The section chairmen announced the officers of their respective sections for 1939 to be as follows:

<i>Section</i>	<i>Chairman</i>	<i>Executive Committee</i>
Botany and bacteriology	G. J. Goodman	M. Levine, 1935-39
Chemistry, general and and physical	J. A. Coss, pro tem	W. C. Oelke, 1937-41
Chemistry, organic and biological	R. M. Hixon	G. H. Coleman, 1935-39
Geology	A. C. Trowbridge	C. S. Gwynne, 1938-42
Mathematics	E. E. Moots	C. Gouwens, 1936-40
Physics	Roger M. Morrow	E. Hobart Collins, 1938-42
Psychology	Lyle K. Henry	E. E. Emme, 1937-41
Science Teaching	H. S. Conard	J. B. Culbertson, 1938-42
Zoology	Paul S. Risley	H. E. Jaques, 1936-40

A motion to have a committee appointed to determine the dates of printing of the Proceedings in previous years was carried. This committee is Martin L. Grant, Chairman; W. A. Anderson; Ada Hayden.

Greetings were read from Dr. Herbert Osborn the first president of the Academy.

Adjournment.

REPORT OF THE EXECUTIVE COMMITTEE

The meeting of the Executive Committee was called to order by President Trowbridge in room 220 in the Martin Hotel at 11:00 a.m., April 15.

Trowbridge, Jaques, Nichols, J. C. Gilman, Conard, J. N. Martin, Cable, Lantz, Gouwens, Oelke, L. R. Wilson, Graber and Emme were present.

Dr. Trowbridge reported for the sub-committee on the effectiveness of the Academy as an adjunct of the State Government. After some discussion the committee was continued with instructions to continue to study this relationship and further the better relationships between the groups.

The committee, on motion, recommended that the by-laws of the Academy be amended as follows: Art. 5, Sections, add "Science teaching" to the list of sections of the Academy, between "psychology, zoology."

The date of the 1939 meeting was fixed, on motion, to be the third Friday and Saturday in April; the general meeting to be held at 11:00 a.m., with the teaching section meeting at 1:00 p.m., and the other sections at 3:00 p.m., Friday and 9:00 a.m., Saturday, as usual. The invitation of Iowa State College for the meeting was accepted. The invitation from the faculty of Coe College for the 1940 meeting was laid on the table for consideration at the next meeting.

The A. A. A. S. grant was divided as follows: Dr. K. A. Stiles, \$100.00 for work on spiders and Prof. H. E. Jaques, \$50.00 for an insect trap and shipping expenses for the insect survey.

The budget was approved as presented.

It was recommended that the Resolutions Committee draw up a resolution that the Iowa Academy support the Kansas Academy in its invitation to the A. A. A. S. to meet in Kansas City in 1940 or 1941.

Adjournment.

Respectfully submitted,

J. C. GILMAN, *Secretary*

REPORT OF THE SECRETARY-TREASURER, 1937-38

The Academy requires that its Secretary-Treasurer come before it at the annual meeting to give an account of his stewardship, and the time for that accounting has arrived. Financially the Academy has approximately recovered from the losses incurred during the depression. However, there was a rather serious failure among the membership in the matter of paying of dues. This year the treasurer received \$429.05 from this source while a year ago, the sum was \$591.05. A part of this deficit is accounted for by the erroneous idea that the dues pay for the Proceedings and that since the volumes for the Iowa City and the Dubuque meetings are both delayed these members are waiting until such delivery before paying their account. Let me emphasize the fact that the dues are not used in printing our Proceedings. They are used to meet the current expenses of the Academy and the negligence of the membership in this matter curtails the activities of the Secretary-Treasurer's office and adds the burden of second notices and prolonged accounting. May I also call to your attention the necessity of informing the Secretary of changes in address? A penny post-card in the nearest mail-box will transmit this information and will be welcomed by those persons who have to keep the mailing-list. With our increased membership, the correctness of the mailing-list becomes a greater and greater task. Further, I wish to correct another common concept; removal from Iowa does not constitute resignation from the Academy. We have members in most of the states in the union and many of them are still active in participation in the affairs of the Academy. The secretary cannot regard the notice of removal as a resignation although he has had one or two rather indignant letters from former members who have been billed for dues after such notice. These matters are minor annoyances that doubtless are inherent in the office of Secretary-Treasurer but the meeting is the one time and place when the secretary meets the general membership and, perhaps, by airing them here, he can smooth the way a bit for the future.

Let us now turn to more general matters concerning the welfare of the Academy. Since taking office in 1929, no year has passed in which the secretary is unable to point with pride to some major accomplishment of the organization. These accomplishments were not the achievements of the secretary but of the membership and in most cases he was only the instrument by means of which the fact was made possible. In 1930 the Academy published its history. In 1931 the Junior Academy of Science of Iowa was set up and through the efforts of Dr. C. W. Lantz of the High School Relations Committee it has become a vigorous organization. As an adjunct to this group the Academy also inaugurated the Junior Academy Radio Program by means of which weekly broadcasts on scientific subjects are made over stations WOI and WSUI. It is interesting to note that this year the A. A. A. S. is starting a similar series over the red network of the National Broadcasting Company. We may properly congratulate ourselves upon the foresight which made us pioneers in this field. In 1932, the Committee on Finance was set up and it has taken over the advisory functions in the business of the Academy very satisfactorily. In 1933 the constitution was revised under the able leadership of Dr. E. J. Cable. While the work of the Academy was unified under the new arrangement there are still certain changes which need to be worked out. The chief of these is the size of the

Executive Committee. Eighteen members are too many to get together effectively and consequently the business of the Academy suffers. How to curtail the membership and yet have a representative group is a problem that remains to be solved. Intersectional and interinstitutional jealousies have thus far interfered with any reduction in the personnel of the committee. In practice the size of the committee causes a more serious loss to the business of the Academy than the sections or institutions gain from the insistence that all be represented in this body.

In 1934 the Academy appropriated \$300.00 to the Committee on Biological Survey enabling them to carry out the publication of Professor Jaques book, "How to know the insects." This publication has found a real place in the literature of this field and the money has already been returned to the treasury and is available for further use.

In 1935 arrangements were completed with the Library of Iowa State College to care for the exchanges which the Academy receives from its publications and the distribution of the Proceedings to the membership. With this arrangement the exchange list has grown and the time has come to consider the size of the edition to be printed in the future. With a growing membership the present edition (1000) will soon be inadequate to supply our needs. The demand from libraries particularly from foreign countries has been increasing.

In 1936 the Academy celebrated its fiftieth anniversary at Iowa City, honoring the members who had been active for forty years or more. This celebration was so well received that we might well consider the possibility of continuing the recognition annually.

In 1937 we established the new section on Science Teaching. This section having interests in all the other sections raises a problem of conflicting time of meeting. At present our meetings are already crowded with papers, and it would be difficult to curtail them for the sake of this new section. The new section will relieve the pressure somewhat but the time arrangement is still a problem. This year the solution has been to place the section on Saturday morning as a time of least conflict. A suggested solution is to have the general meeting changed from Friday afternoon to Friday morning at 11:00. Such change would allow the placing of this section at 1:00 Friday before the other section meetings. It would shorten the general program but would give more time to the Executive Committee for its deliberations. It also might provide luncheon meetings for the sections or for standing committees and thus be an aid in the transaction of the business of the Academy. The earlier time would work some hardship on the outlying members but, with our present-day roads and the automobile, most of the persons except those from the far corners would be able to make the trip comfortably before eleven o'clock and as we are set up today Friday morning is used in travel anyway. Those who did not wish to attend the general meeting Friday would not be discommoded.

I would still like to have the Academy more active in the scientific affairs of the day. We are organized and representative of the scientific interests in the state; yet, too often matters in which we have a very deep and pertinent interest are discussed and decided without our being so much as advised that the question has arisen. Recently the State Board of Education called together a group of leaders in the field of conservation and

many of our members were called upon. As an active group in this field (we have a Committee on Conservation) the Academy was entirely ignored. I am sure the omission was unintentional but the incident illustrates the point I am trying to make. We have not made ourselves felt as a group in the state. It is our own fault. Until such time as we can bury our individual selfish interests in the greater interest of the Academy there will be no betterment of this condition and the condition is reflected in all our business.

If we were felt to be an important adjunct of state business and state policy, would our Proceedings be so delayed? Would not our meetings have better attendance and our publications be more valuable? At present we are in a vicious circle that can only be broken by the united effort and combined strength of us all. If we do get together we will find our strength multiplied many times and our plans reaching successful conclusions rather than frustration. As your secretary, I can only serve your desires. If you think we are progressing with sufficient rapidity there is nothing I can do. I am only trying to envision the part that we should take in the complicated affairs of living.

In closing let me again thank the officers and the membership for their coöperation and help during the past year and bespeak its continuance to the Secretary-Treasurer in the future.

Respectfully submitted,
 JOSEPH C. GILMAN, *Secretary-Treasurer*

REPORT OF THE TREASURER, MARCH 1, 1938

CREDITS:

Balance, March 1, 1937	\$203.35
Dues	429.05
A. A. A. S. grant	150.00
Johnson County Bank Div. No. 8	72.60
Sales of Proceedings	18.20
	<hr/>
	\$873.20

DEBITS:

Printing	\$ 82.79
Postage	52.96
Honoraria	156.75
Clerical help	47.53
High School Relations Committee	32.78
A. A. A. S. grant	150.00
A. A. A. S. meeting	22.45
Exchange	.45
	<hr/>
	\$545.71

Balance

 327.49

 \$873.20

ENDOWMENT FUND

CREDITS :

Balance March 1, 1937.....	\$ 483.86
Fees from fellows.....	24.00
Biological Survey fund.....	300.00
Interest on bonds.....	67.23
	<hr/>
	\$ 875.09

DEBITS :

Fed. Farm Mtg., 3% bond, denom. \$500..	\$ 517.24
Balance.....	357.85
	<hr/>
	\$875.09

HOLDINGS :

Strauss Bond.....	\$ 500.00
Federal Farm Mtg. '64.....	500.00
Federal Farm Mtg. '49.....	500.00
Cash on hand.....	357.85
	<hr/>
	\$1857.85

REPORT OF THE AUDITING COMMITTEE

March 22, 1938

The accounts of the Treasurer of the Iowa Academy of Science have this day been audited by the undersigned and found to be correct and in proper form.

(Signed) E. R. SMITH
 G. W. SNEDECOR
 JAY W. WOODROW

REPORT OF THE EDITOR

Volume 43, having a total of 413 pages, has been distributed this spring. The galley proof for Volume 44 is being sent to contributors for corrections.

Because of an unusually busy season the press has been delayed in finishing the work.

The chairmen of the sections gave their splendid coöperation in preparing the manuscripts for publication. The general form continues to improve.

The editor expresses her appreciation to all those who have helped in preparing the material for the Proceedings.

Respectfully submitted,

FLORENCE W. NICHOLS, *Editor*

COMMITTEE ON BIOLOGICAL SURVEY

Your committee records the fact that Professor Jaques' book, "How to Know the Insects," which began its career with the aid of the Academy

publication fund of \$300.00 is now in its fourth printing. Over seven thousand copies have been distributed all over the United States. Thus, our little contribution has rendered service not only to a member but to the Academy, the State and the Nation.

The committee is now interested in the preparation of a key to the flowering plants of the state. The list of species to be included is nearly ready. If an acceptable manuscript can be written, the publication should be finished before the next meeting of the Academy. The committee wishes to be authorized to draw out the publication fund of \$300.00 at its discretion, for this booklet.

The committee makes honorable mention of two publications by members of the Academy during the year. Miss Ida Iversen, professor of biology in Mason City Junior College, with the collaboration of a pupil, Miss Roslyn Brogue, has published a book of 124 pages entitled "Our Friends—The Trees." It is an illustrated manual for the vicinity of Mason City, but will be of service practically all over the state. Professors Aikman and Hayden of Iowa State College have produced, under the auspices of the College, an admirable book, "Iowa Trees in Winter." We commend both of these books to our members, and to the general public.

Many other fields of Iowa natural history need attention. It is not too soon for workers to make a start on manuscripts in their special fields.

Respectfully submitted,

H. E. JAQUES

T. C. STEPHENS

R. B. WYLIE

H. S. CONARD, *Chairman*

REPORT OF SCIENCE TEACHING COMMITTEE

A committee was appointed prior to the 1937 meeting by L. P. Sherman, President of the 1937 Iowa Academy, to consider the organization of a distinct section of the Iowa Academy of Science which should have as its province the consideration of teaching problems in and common to the various branches of science. Dr. S. M. Dietz of Iowa State College was the chairman of this committee.

Two meetings of this committee were held during the course of the 1937 Academy sessions. In the first one a large representation of teachers from various schools over the state met in a general conference with them.

Certain questions were suggested as likely to arise in the operation of such a section. (1) Would there be sufficient community of interest in teaching problems among the various sciences to insure a sustained group interest in such a section of the Academy? (2) Could these problems be better treated in a distinct section rather than in the various subject-matter field sections as has been done in the past to some extent? (3) Might not such a section result in an irreconcilable split in the interests of many members of the Academy? Already not a few members commute between two or three of the presently organized sections of the Academy. Here would be one more to scatter their allegiance.

Out of a discussion of these and other problems, certain possible advan-

tages in the operation of a separate section on science teaching appeared. (1) A very large portion of the Academy members are pre-eminently interested in the *teaching* of the sciences in the fields of science. (2) There are *problems common* to the teaching of various branches of science. (3) Attention to problems of teaching is likely to be focused in a section specifically set up for their consideration in a way not so certain to happen in those designed for the consideration of particular subject-matter research. (4) This science teaching section should give an opportunity for increased interest of teachers in secondary schools in the senior Academy. Many problems common to and integrating the teaching of science at the secondary and college levels could be brought out in such a section. In general this very desirable feature has not occurred, and possibly is not so likely to occur, when papers dealing with teaching problems are scattered within or added to the usual programs of the individual subject-matter fields. As a result of these considerations it was the consensus of this first large consultation group that the committee should plan for the trial operation of a new section of the Iowa Academy on science teaching.

In the second meeting of the committee, plans were laid that a program be arranged for the Academy meeting of 1938. It was suggested that for this program papers represent special study and research upon problems of science teaching. Dr. Dietz was chosen as chairman. Due to his later "leave of absence" to the State College of Washington, the present chairman was appointed by the 1938 Academy President, A. C. Trowbridge.

This section will continue with H. S. Conard of Grinnell as chairman of the 1939 session.

J. B. CULBERTSON, *Chairman* (1938)

REPORT OF THE MEMBERSHIP COMMITTEE

The following persons are recommended for election in their respective groups:

Associate

J. V. Atanasoff, Bernard Berger, Emerson K. Beekly, Harold F. Beery, J. Bajema, E. O. Brown, George Bowne, Herman Francis Brandt, C. H. Brown, James H. Clynch, Wilfred D. Crabbe, John C. Frye, Wm. Furnish, S. W. Edgecombe, Rudolph W. Edmund, Golda Harper, W. M. Hart, James J. Hilbe, E. Wayne Hilmer, Yuba Hunsley, James P. Goodrich, LuVern Gray, Clifford Grove, Leland P. Johnson, W. Paul Jones, H. L. Lantz, Wayne Lewiston, John J. Mahoney, S. Porter Miller, Carl Moore, Oliver W. Muelder, Margaret Murley, Paul H. Nelson, Odell Julander, Edwin N. Oberg, Sister Mary Edward Potterbaum, Howard Wm. Rieke, John S. Rinehart, J. Fred Robertson, Sister M. DePazzi Rochford, S. T. Runkel, Harry J. Russell, J. C. Schilleter, Walter C. Schuldt, Ellis H. Scobey, D. R. Shepherd, Robert C. Spivey, Bruce F. Stiles, Wilfred B. Tapper, E. C. Volz, Edwin H. Wenberg, George H. Wolf, Wm. H. Yoho.

Fellows

H. E. Biester, Walter F. Buchholtz, Robert Cocroft, Allen T. Craig, Marian E. Daniells, Glen Davis, J. Raymond Derby, Earle E. Emme, Charles M. Genaux, C. D. Lee, P. G. Robinson, H. H. Rowley, E. F.

Waller, L. R. Wilson, Margaret Liebe, S. H. McNutt, I. A. Merchant,
Neil A. Miner, F. B. Moreland, Roger W. Morrow, Homer Mouden.
Committee,

D. L. HOLL

PAUL KAMBLY

R. W. GETCHELL

L. R. WILSON, *Chairman*

REPORT OF THE RESOLUTIONS COMMITTEE

Your Committee presents the following resolutions:

Resolved:

1. That the Iowa Academy of Science recognizes the excellence of the arrangements made by Morningside College for the entertainment of the Academy's fifty-second annual meeting.
2. That the sincere thanks of the Academy be extended to President Earl A. Roadman of Morningside College, to Prof. M. E. Graber and his committee, and to Briar Cliff College for their efforts to meet every need of the visiting academy members.
3. That we express our appreciation to radio stations WOI and WSUI for time in broadcasting the programs for the Junior Academy of Science.
4. That we recommend that the Iowa Academy of Science support the Kansas Academy in its invitation to the American Association for the Advancement of Science to meet in Kansas City in 1940 or 1941.
5. That we extend our thanks to the Martin Hotel for its hospitality.

KARL A. STILES, *Chairman*

J. A. LARSEN

T. H. LIGGETT

A. L. BAKKE

REPORT OF CONSERVATION COMMITTEE IOWA ACADEMY OF SCIENCE, APRIL 16, 1938

Although it has not been possible to hold a meeting of the Conservation Committee since the end of the Dubuque meetings of the Academy in 1937, some business has been done by correspondence and conference.

The committee cannot claim to have found the key to effective service in conservation on the part of the Academy. However, some suggestions should be recorded.

Our chief service should doubtless continue to be scientific and educational. There is some danger that if we as scientists do not prevent it, the fact that most true conservation is necessarily based on scientific facts and principles will be lost sight of. We recommend that future programs of the Academy, as is true of past and present programs, include scientific papers on conservation, either in the general session or in sectional meetings or both.

Although unofficially, the Conservation Committee of the Academy is represented in the recently organized Society for Conservation Education and on its Executive Committee.

The Academy should do what it can to support the State Conservation Commission, the State Planning Board, the State Archeological Survey, the State Biological Survey, and the State Geological Survey, all of which are doing conservation work but are under-financed and under-staffed. Such influence as we have, however, should be exerted by individual members rather than by the Academy officially.

Professor MacDonald reports: (1) No change since last year in the purchase of national forest lands in Iowa. The only Iowa forest land now owned by the federal government is the site of a nursery now in operation at Keosauqua; (2) The purchase of 10,500 acres of sub-marginal land in Lee, Lucas, and Allamakee counties from the first "Governor's Fund" of \$500,000, to be administered as a state forest by the Iowa Conservation Commission. So far no part of the equivalent fund appropriated by the last legislature has been used for purchase of additional land for this purpose; (3) The establishment of a new forest nursery south of Ames, through the emergency conservation program; (4) Proposals for Iowa to participate in the \$50,000,000 fund of Title III of the Farm Security Act for the retirement of sub-marginal land. The first \$10,000,000 of this fund to be spent has been allocated to the dust-bowl region.

Respectfully submitted,

J. M. AIKMAN
 CHARLES CARTER
 H. S. DOTY
 C. R. KEYES
 G. B. MACDONALD
 WINFIELD SCOTT
 A. C. TROWBRIDGE, *Chairman*

REPORT OF THE HIGH SCHOOL RELATIONS COMMITTEE,
 1938

The work of our committee has consisted in aiding the Junior Academy. The Junior Academy has been active this year with D. Dale Davis, Manchester, Iowa, as Senior Councilor, and O. C. Krieder, Iowa Falls, as Junior Councilor. Miss Gertrude Morrison who was appointed as Junior Councilor for 1937-38 resigned because of removal from the state and O. C. Krieder was appointed to fill the vacancy. During the year, the organization has published a *News Letter* which all clubs receive and a weekly radio broadcast has been given from WOI at Ames, and WSUI at Iowa City.

The annual convention was held at East High School, Sioux City, April 15 and 16. The registered attendance was 105, and delegates from 12 clubs were present. This is very good since a number of clubs are located so far from the place of meeting. There are 30 clubs in the organization. Four new clubs were added this year.

At the business meeting, the Junior Academy passed an amendment to the constitution proving for a permanent secretary to be appointed by the High School Relations Committee. This amendment becomes effective when ratified by two-thirds of the clubs.

The following awards were made for exhibits:

Junior High School Science—Amos Hiatt Junior High School, Des Moines.

Biological Science—Mason City High School.

Physical Science—Central High School, Sioux City.

Mathematics—No award.

Sweepstakes—Spencer High School.

O. C. Krieder of Iowa Falls becomes Senior Councilor for next year. The committee wishes to recommend the appointment of Mr. Thorel Fest of Spencer High School for Junior Councilor for the year 1938-39.

Officers elected by the Junior Academy for next year are:

President, Don Morgan, Spencer.

Vice President, Laurence Kesting, Marion.

Secretary, Mary Jo Rosenberg, Iowa Falls.

Treasurer, Clyde Harding, Iowa Falls.

The committee wishes to express thanks to Mr. W. H. Seubert and the Sioux City High Schools for the splendid way by which they have entertained the Junior Academy this year.

Respectfully submitted,

C. W. LANTZ, *Chairman*

JUNIOR ACADEMY RADIO PROGRAM

Oct. 7—ISC—Gilman, J. C.—Mushrooms.

Oct. 14—ISC—Fritz, Martin—Our personalities.

Oct. 21—ISC—Cline, L. M.—Geological conditions necessary for a producing oil field.

Oct. 28—ISTC—Rath, H. E.—Some aspects of mental hygiene.

Nov. 4—Conservation Commission—Aitken, W. W.—Applied biology and fish management.

Nov. 11—SUI—Marsh, Gordon—A marine biological laboratory.

Nov. 18—SUI—Hinman, J. J.—The water we drink.

Nov. 25—Thanksgiving.

Dec. 2—Coe—Stiles, K. A.—Opportunities of students in the study of Iowa Spiders.

Dec. 9—ISTC—Read, O. B.—The importance of food analysis.

Dec. 16—ISC—Firkins, B. J.—Why soils wear out.

Jan. 6—ISC—Riedesel, Mildred—The march of the trees.

Jan. 13—ISTC—Kadesch, W. H.—California's giant bridges.

Jan. 20—ISC—Thomas, B. H.—Distribution of vitamin D in foods.

Jan. 27—ISC—Richards, L. A.—Physics and soil moisture.

Feb. 3—ISC—Baker, M. P.—The relationships of bacteria to dairy products.

Feb. 10—SUI—Woods, Roscoe—The place of mathematics in the study of scientific subjects.

Feb. 17—SUI—Lapp, C. J.—Some basic values in science.

Feb. 24—SUI—Rowley, H. H.—Adsorption, catching molecules on surfaces.

Mar. 3—ISC—Loomis, W. E.—The staff of life.

Mar. 10—ISTC—Abbott, R. L.—Houses that Jack built.

Mar. 17—ISC—Norman, A. G.—Training for science in England.

Mar. 24 — ISC — Lauer, A. R. — Some samples of scientific experiments in psychology.

Mar. 31 — ISC — Martin, J. N. — The snow trillium.

Apr. 7 — ISC — Snedecor, G. W. — Why statistics.

Apr. 14 — ISTC — Cable, E. J. — Why our weather.

Apr. 21 — SUI — Anderson, W. A. — The longest lived tree in Iowa.

Apr. 28 — SUI — Trowbridge, A. C. — Geology for junior scientists.

May 5 — SUI — Ware, L. A. — Electronics.

May 12 — ISTC — Lantz, C. W. — The smallest living things.

May 19 — SUI — Feder, D. D. — Mental tests.

May 26 — Iowa Wesleyan — Jaques, H. E. — Interesting hours spent with the insects.