

# Proceedings of the Iowa Academy of Science

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Article 5

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1950

## Reports: Executive Committee; Secretary; Treasurer; Staff Reports; Committee Reports

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## Report of the Secretary

The Academy continues to grow in members and in influence. I have on my rolls the names of 948 members distributed as follows: Honorary Fellow 1, Emeritus Fellow 7, Life Fellow 21, Fellow 310, and Associate 609. This is a gain of about 47 per cent over the 1945 war time low and a gain of almost 35 per cent over the pre-war time high. The treasurer's reports show that the 1949-50 dues collected exceed the 1945-46 dues collected by almost 70 per cent and the pre-war high by 45 per cent. The increasing membership means an increase in the number of copies of the Proceedings printed by the State. Then too we are receiving many requests for reprints and back volumes of the Proceedings so we have great need of a stock pile of back volumes.

The cost of publishing of the Proceedings is rising rapidly. For this Biennium the State appropriated \$5100.00 and already \$2989.37 has been used on volume 55. Volume 56 is now in press.

Dr. F. G. Brooks represented the Academy at the Academy Conference held in connection with the A.A.A.S. meeting in New York. He is presenting his report to the Academy.

The A.A.A.S. grants to the Academy for aid in research have accumulated for several years but applications for grants have been received from several members indicating renewed interest in this source for aid.

Professors L. P. Sherman, C. W. Lantz and J. W. Woodrow were asked to serve on a jury to select the most meritorious paper presented at the 1949 meeting of the Academy to be awarded the fifty dollar prize.

The President of the Academy made the following appointments during the year. Orlando C. Kreider was named chairman of the Science Teaching section since no chairman was elected last spring. Martin L. Grant was named chairman of the Biological Survey committee to serve until 1952. W. C. Oelke, Jr. was named chairman of the Membership committee to serve until 1955. J. C. Gilman was named chairman of the Finance committee to serve until 1950. G. W. Martin was named to the Library Committee to serve for two years. Robert S. Casey, Leland P. Johnson, and Roy A. Nelson were added to the Finance Committee. H. L. Dean and Leland P. Johnson were added to the Membership Committee. D. C. Stroud was named chairman of the High School Relations committee to serve to 1954 and F. E. Brown was named chairman of the newly created committee on Science Talent Search to serve to 1955. This committee was authorized by the Academy at the

meeting last year but our By-Laws will have to be amended to make this action proper and constitutional.

The Academy is in a flourishing condition and continues to serve science and the State of Iowa with increasing benefits to both. It was a source of pleasure to receive a questionnaire circulated by the secretary of another State Academy in which the Iowa Academy was held up as the model State Academy.

CORNELIUS GOUWENS, *Secretary*

### Report of the Treasurer

March 1, 1950

#### Receipts

Balance on hand, March 1, 1949.....		\$1,132.45
Dues * .....	\$1,013.00	
Sales .....	41.40	
Interest .....	62.50	
Sales of Roster .....	2.25	
Exchange .....	.10	
Sale Bonds .....	675.00	
A.A.A.S. Grant .....	110.50	
Redeposit of ret. ck.....	1.00	
	<hr/>	
Total .....	\$1,905.75	
Total Receipts .....		\$3,038.20

#### Expenditures

Printing .....	\$ 238.98
Postage .....	184.80
Freight .....	19.74
V. W. Meloche, Honorarium and expenses.....	97.39
W. F. Edgell, Academy Prize .....	50.00
F. G. Brooks, Editor, Vol. 55.....	100.00
R. W. Getchell, Membership Committee .....	3.85
R. A. Rogers, Expenses .....	3.50
D. C. Stroud, Secretary, Junior Academy.....	25.00
Editor's office .....	9.50
F. G. Brooks, Academy Conference .....	20.00
Junior Academy Account .....	75.00
Herald Publishing Company .....	36.83
Savings Account, Interest U. S. Bonds .....	62.50
Savings Account, Fellows fees .....	56.00
James Hodges, Research Grant .....	110.50
Secretary's Office .....	19.36
Bank Charges .....	12.47
Hertzberg Binders .....	12.40
Charge against Ret. Check .....	1.00

C. Gouwens, Secretary .....	100.00	
Purchase U. S. Bonds .....	1,250.00	
Total .....	\$2,488.82	
Balance on hand, March 1, 1950, on deposit		
Union Story Trust and Savings Bank, Ames, Iowa		\$ 549.38

\* This includes \$372.00 of 1950-51 dues collected before March 1, 1950.

### Savings Account

Balance on hand, March 1, 1949 .....		\$ 931.67
<i>Deposits</i>		
Interest (savings account) .....	\$ 4.77	
Interest (U. S. Bonds) .....	62.50	
Fellow membership transfer fees .....	56.00	
Total .....	123.27	
Total Deposits .....		1,054.94
<i>Withdrawals</i>		
Purchase of U. S. Bonds .....	750.00	
Balance on hand March 1, 1950 (On deposit Union		
Story Trust and Savings Bank, Ames, Iowa.)----		304.94

### Statement of Total Assets

U. S. Treasury bonds — Series F Face value \$1,000.00,		
purchased Dec., 1943. Due 1955. Present value----	822.00	
U. S. Treasury bonds series G .....	3,500.00	
Savings account, March 1, 1950, Union Story		
Trust and Savings Bank .....	304.94	
Total endowment fund .....		4,626.94
Checking account, current funds on deposit Union		
Story Trust and Savings Bank .....	549.38	
Total assets, March 1, 1950 .....		5,176.32
Total assets, March 1, 1949 .....	5,022.62	
Gain in assets during year .....	153.70	

CORNELIUS GOUWENS, *Treasurer*

## Report of the Auditing Committee

We, the undersigned auditing committee, have examined the books and associated records of Cornelius Gouwens, Secretary-Treasurer of the Iowa Academy of Science, for the period of March 1, 1949 to March 1, 1950. We find them in good order and correct, and wish to commend him for his careful attention to the duties of the office.

ALBERT O. QUALLEY  
EARLE L. CANFIELD

## Report of the Editor

Volume 55 of THE PROCEEDINGS has been distributed during the year. Volume 56 is now on the press, but I shall not attempt to foretell its date of distribution. We continue to be plagued by the fact that the State does not put a time provision in the contract for printing. I had hoped that the new contractor, The Torch Press of Cedar Rapids, would do better than its predecessor, but the reverse is true. The typesetting was not completed until February 23; other operations have been correspondingly slow.

During the year, a question has arisen relative to the desirability of including lists of publications as part of obituary articles. Since it is obviously appropriate to keep the memorial biographies somewhat uniform in length and nature, I have ruled that bibliographies should not be included. It seems desirable, however, in cases where publications are not elsewhere listed and where the availability of such lists would be of value to other workers, to have them published in THE PROCEEDINGS. It is my suggestion that when these conditions pertain, the bibliographies be prepared as separate articles to be offered for publication with other papers in the field of the deceased.

It should be mentioned in this report that the increase in the cost of printing without a corresponding increase in state appropriations makes it impossible any longer, to publish all papers read at the meetings or presented by title. The editor will depend upon the section chairmen to help him to use the value and length of the various papers as criteria when omissions have to be made.

F. G. BROOKS, *Editor*

## Report of the Membership Committee

The Membership Committee wishes to present the following named persons for election to membership in the Iowa Academy of Science:

**Emeritus Fellows:** 5, Paul Bartsch, Washington, D. C.; L. L. Buchanan, Washington, D. C.; J. W. Morrison, Alta; Stephen W. Stookey, Cedar Rapids; F. A. Stromsten, Iowa City.

**Fellows:** 14, A. R. Aandahl, Ames; J. Harold Ennis, Mount Vernon; S. A. Giovanazzi, Cedar Rapids; Karl E. Goellner, Cedar Rapids; Donald B. Harris, Cedar Rapids; Samuel R. Jackson, Cedar Rapids; George Kalnitsky, Iowa City; Walter H. Kohl, Cedar Rapids; J. E. McClelland, Ames; Clair G. Maple, Ames; Robert M. Muir, Iowa City; Albert T. Reid, Ames; Frank M. Semans, Sioux City; Robert F. Thorne, Iowa City.

**Transfer to Fellows:** 3, John A. Bath, Ames; W. C. Oelke, Jr., Grinnell; Charles D. Starr, Mount Vernon.

**Re-instatement, Associates:** 3, Theodore A. Bancroft, Ames; William H. Dreier, Cedar Falls; Glen E. Frazer, Mt. Pleasant.

**Associates:** 248, Walter W. Abramitis, Ames; R. J. Agan, Story City; Peder Ahlmark, Indianola; R. Wayne Allen, Des Moines; Dorothy Jane Allphin, Des Moines; Burton G. Andreas, Iowa City; Julia S. Appel, Iowa City; Joab Klapp Aronson, Iowa City; N. C. Baenziger, Iowa City; John E. Bardach, Cedar Falls; John Barker, Ames; Mrs. John M. Barlow, Waterloo; Irving Barnett, Iowa City; Arlo Baumeier, Indianola; Maxine Beatty, Des Moines; Beryl Benton, Des Moines; Herbert L. Berman, Des Moines; William S. Bicknell, Ames; George Y. Bijjani, Dubuque; Edward A. Bilodeau, Iowa City; Harold Bittle, Mount Vernon; Harry M. Blomquist, West Union; Sister Mary Cecilia Bodman, Chicago, Illinois; Ralph Bonne; H. H. Boyce, Mason City; James C. Browning, Ames; Irvin H. Brune, Cedar Falls; Thomas J. Bulat, Iowa City; John B. Cain, Perry; Earl D. Camp, Iowa City; Louis Campanaro, Iowa City; Arthur Canter, Iowa City; Arthur G. Carroll, Iowa City; Edna Carstensen, Mason City; Edmund Wei-kuang Cheng, Ames; Sister M. Francis Clare, Clinton; Bruce B. Clark, Grinnell; Jerry Clock, Mount Vernon; Merlin D. Coe, Mt. Pleasant; Charles W. Collinson, Iowa City; Carlton Condit, Iowa City; Karl L. Conrad, Ames; Lamont Constable, Mason City; Manuel F. Coria, Indianola; Wanda L. Daum, Waterloo; Harris Dickey, Ames; Ervan S. Dornbos, Indianola; Wallace Douma, Grinnell; Dale W. Dysinger, Iowa City; Nathan Wm. Easterly, Iowa City; Carl H. Eiben, Dubuque; Donald Eugene Elefson, Des Moines; Ernest V. Enzmann, Des Moines; John W. Erickson, Iowa City; LeRoy Eyring, Iowa City; Walter V. Fackler, Jr., Ames; W. W. Farley, III, Cedar Rapids; James V. Farrell, Cedar Falls; Maurice H. Farrier, Ames; Marcus J. Fay, Iowa City; Max B. Ferguson, Ames; Arlin M. Feyerherm, Ames; Edwin Melvin Fields, Iowa City; James Finch, Indianola; Richard E. Frey, Ames; Richard C. Froeschner, Ames; W. Don Fronk, Ames; Henry P. Furgal, Ames; H. Filmore Garner, Osceola; M. Gerrells, Ames; Richard E. Gilman, Iowa City; D. Lyle Goleman, Ames; Ruth L. Goodland, Ames; Carol May Goodwin, Des Moines; Robert Wood Green, Mt. Pleasant; John A. Greenlee, Ames; Henry Greischar, Davenport; Edward G. Grimsal, Ames; James D. Grooters, Iowa City; F. F. Gruber, Carroll; Vern Hagen, Ames; Don Hammond, Fairfield; Calvin Hanna, Iowa City; T. E. Hannum, Ames; John F. Hanson, Amherst, Massachusetts; Durwin M. Hanson, Ames; Philip Harbour, Mt. Pleasant; Delma E. Harding, Ames; Stuart F. Harkness, Des Moines; Donald E. Hattin, Egypt, Massachusetts; R. R. Haun, Des Moines; Helen W. Hawkins, Waterloo; J. B. Heifner, Waterloo; Gerald C. Helmstadter, Ames; Helen Hoffman, Waverly; Gordon J. Holcomb, Iowa City; Martin Holstege, Pella; Donald A. Hoppe, Ames; Paul S. Hudson, Mount Vernon; Daniel H. Hug, Ames; Herbert T. Hurley, Des Moines; Kieth M. Hussey, Ames; Ernest A. Hutchinson, Los Angeles, California; William J. James, Ames; Lewis F. Jenkinson, Iowa City; Robert C. Johnson, Iowa City; Robert Gudwin Johnson, Ames; Carl R. Jolliff, Iowa City; Edwin S. Kajihiro, Mt. Pleasant; K. Kammermeyer, Iowa City; Lawrence Kaplan, Iowa City; Dora E. Kearney, Cedar Falls; Clifford R. Keizer, Pella; Charles W. Kern, In-

dianola; Lois Kimpston, Waterloo; Warren D. Kitts, Ames; R. N. Kjerland, Ames; Robert H. La Blanc, Des Moines; Roland K. Lancaster, Fairfield; C. E. Langenhop, Ames; Raymond L. Leach, Des Moines; Albert L. Leatherby, Mt. Pleasant; Dell Lebo, Iowa City; Leslie L. Licklider, Storm Lake; J. H. Lilly, Ames; Glen R. Livengood, Des Moines; Frank A. Logan, Iowa City; John P. Long, Indianola; Fred W. Lott, Jr., Cedar Falls; Alvin L. Lugn, Jr., Indianola; William A. Lull, Cedar Rapids; Michael G. Lysenko, Ames; Dorothy McAllister, Iowa City; Franklin E. McClure, Mitchellville; Robert W. McCreight, Pella; Kathryn G. McGrath, Ames; Willis C. McGuire, Charles City; Fred W. McLafferty, Iowa City; James D. McQuigg, Des Moines; Arnold D. Marcus, Des Moines; D. N. Marquardt, Cedar Falls; Bruce W. Maxwell, Cedar Rapids; Paul A. Meglitsch, Des Moines; Mark F. Meier, Iowa City; Robert M. Melampy, Ames; Robert Meloy, Sioux City; Paul A. Merkle, Indianola; C. Don Miller, Iowa City; Harlan D. Mills, Ames; Howard L. Mills, Iowa City; Dave Mooberry, Grinnell; Creighton T. Morford, Mt. Pleasant; Harold W. Morgan, Mason City; Joseph P. Morgan, Mt. Pleasant; Maurine Morgan, Ames; John Morrill, Grinnell; Rex Morrison, Fairfield; Alfred J. Moses, Ames; Jack Mueller, Iowa City; H. T. Muhly, Iowa City; Harry Nelson, Jr., Des Moines; H. L. Nelson, Cedar Falls; Sally J. Nicholson, Indianola; J. Paul Nickerson, Des Moines; Gunnar Norgaard, Iowa City; John E. Ohlsen, Iowa City; Okogbue Okezie, Mt. Pleasant; George Olson, Des Moines; Leslie Paleg, Iowa City; Gerald W. Paul, Indianola; John H. Pazur, Ames; Mrs. Ambrose Peck, Fairfield; Mabel O. Penrod, Oskaloosa; Edward M. Peters, Iowa City; R. Bruce Phillips, Indianola; Mrs. Emily L. Philpott, Indianola; Warren E. Picklum, Ames; William K. Plucknett, Ames; Willard J. Poppy, Cedar Falls; T. Wayne Porter, Ames; John T. Pratt, Grinnell; Frederick W. Preston, Mason City; Norman R. Proffitt, Indianola; Pearl Rader, Waterloo; M. A. Ragab, Iowa City; Earle S. Raun, Ames; Kellam Rigler, Greenfield; Lloyd Ritland, Des Moines; Rodney A. Rogers, Des Moines; Walter Rosen, Iowa City; Joseph R. Royce, Des Moines; Sylvia Rudman, Iowa City; R. E. Rundle, Ames; Albert R. Rustebakke, Grinnell; Eli Saltz, Iowa City; Harold E. Samuelson, Des Moines; Glen C. Sanderson, Marion; Pauline L. Sauer, Cedar Falls; John V. Schippers, Pleasantville; Mason Scholl, Mount Vernon; Wayne H. Scholtes, Ames; Erma Schumacher, Ames; G. O. Schwab, Ames; Edward Seely, Jr., Mt. Pleasant; Catherine B. Semans, Sioux City; Robert L. Sexton, Des Moines; Richard S. Shaft, Iowa City; Leonidus Shahan, Mt. Pleasant; Ralph H. Shepherd, Mt. Vernon; Arden F. Sherf, Ames; Lorena M. Shinn, Ames; Irving Siegel, Iowa City; Barbara Siple, Des Moines; Ernest A. Snow, Jr., Amherst, Massachusetts; David H. Soule, Ames; John Sparapany, Storm Lake; Donald W. Squires, Indianola; Paul Stepp, Fairfield; Carl V. Strandskov, Des Moines; Wm. Nichols Sumerwell, Ames; Herold E. Swartz, Iowa City; Charles Tanford, Iowa City; Charles M. Terry, Ames; Maurice Test, Des Moines; W. L. Tolstead, Pella; Edwin M. Vaughan, Davenport; Frank D. Venning, Iowa City; Leo P. Vernon, Ames; August John Vlitos, Ames; L. Dean Wallace, Dubuque; Donald G. Wallace, Des Moines; Fred Weber, Waverly; Ruth Ann Welton, Iowa City; Margaret G. Westerhof, Des Moines; Everett M. White, Ames; Lawrence B. Wick, Cedar Rapids; M. Wiederaenders; Emery L. Will, Cedar Falls; Robert K. Willardson, Ames; Curtis W. Wingo, Ames; Eugene H. Wood, Des Moines; Wayne K.

Wright, Cedar Rapids; William Yohe, Des Moines; Carl Yoshimoto, Mt. Pleasant; W. Gene Younkin, Davenport; Sister M. Rupert Zeiser, Clinton; Wm. F. Zelezny, Iowa City; LaRoy Wm. Zell, Iowa City.

W. C. OELKE, JR., *Chairman*

## **Report of the Committee on Conservation**

Results of the study made last year have been used by the committee in classifying the membership of the academy into five groups on the basis of interest, capabilities and willingness to accept responsibility in particular phases of a coordinated conservation program for the academy. It was of interest to note that the academic field of a member seems to have very little relationship to his interest in conservation and his willingness to assist in promoting the program. Members of the committee have been designated to organize four of these groups into work units to determine procedures to follow in promoting phases of the conservation program selected by the members of each group as their chief interest.

The subcommittee, authorized by the academy at its 1949 meeting to accept the responsibility from the Iowa conservation commission of acting as an advisory committee on the care and use of the Howard and Pocahontas county prairie tracts, has initiated a program to investigate the condition of the two prairie reserves to serve as a basis for recommendations on their care and use. A grant of \$350 was made in July 1949 by the conservation commission for this purpose.

A map of each area based on government aerial photos is being prepared. A preliminary analysis of the prairie vegetation of the tracts discloses the fact that the greater proportion of each is upland prairie but that each has some low, poorly drained areas the degree of drainage of which varies with the season. A more nearly complete analysis of the vegetation by means of frequency-abundance quadrats has been made of the Pocahontas county (Kalsow) prairie than of the Howard county prairie. A collection of 14 species of grasses and 54 species of prairie plants other than grasses has been made and identified from this prairie and the list is by no means complete.

A comparison of the soil profile of the prairie tracts with the soil profile of surrounding cultivated fields of the same soil type, which were originally prairie, is being made. By this means an attempt is made to determine the degree to which the cultivated



soil of the general region has been depleted of nutrients and the original prairie profile altered by farming operations.

The soil of the original prairies of Iowa, on the basis of parent material, depth and structure of soil, ranks among the best if not the best in the world. The production and decomposition in place of large quantities of organic matter by the prairie vegetation of these tracts is illustrated by volume-weight determinations made in the Howard county prairie last fall. The volume-weight of the soil determined by core samples ( $1\frac{1}{2}$  inches deep) taken at 6 inch intervals, from the surface to a depth of 4 feet, was: .80, 1.09, 1.11, 1.18, 1.29, 1.38, 1.66, 1.72. The light weight of the first four samples indicates that this fertile, black, friable prairie soil did not materially change color and structure till the fifth 6-inch layer was reached. The heavy, yellowish parent material was modified very little at the four-foot level as shown by a volume-weight of more than twice that of the surface layer.

The Howard county prairie gives evidence of having been disturbed less than the Kalsow prairie during the past several years. In addition it has not been mowed since purchased in 1945 while the Kalsow prairie, purchased later, was mowed last in 1948. Yield data from the two tracts indicate this difference in treatment as well as a possible difference in potential yield. The above-ground yield of the prairie vegetation in 1949, computed from sample areas, was 3400 pounds per acre for the Howard county prairie and 2700 pounds for the Kalsow prairie. The quantity of partially decomposed plant material above ground, however, was 4200 pounds for the former as compared to less than 400 pounds for the Kalsow prairie.

At its annual business meeting in 1948 the academy voted to approve the objective of acquiring a prairie tract at the Iowa Lakeside Laboratory and directed the conservation committee to take necessary steps for this purpose. Since the Gull Point prairie, in the vicinity of the laboratory, had already been selected by the committee as the next unit for purchase, the conservation commission proceeded to take steps toward completing its purchase. The present owner indicated definitely that he did not wish to sell. The committee is therefore making further investigations of prairie tracts in the vicinity which may be available for purchase. This matter is considered urgent because there is always the likelihood that these tracts will be plowed up as was the most suitable one for this purpose a few years ago.

A progress report of the comprehensive study of the water re-

sources of the state which has been initiated by a special subcommittee was planned but will be delayed till next year. This subcommittee is working in close coordination with the resources board of the state through the efforts of board members who are also members of the conservation committee.

Respectfully submitted,

H. S. DOTY

ADA HAYDEN

G. O. HENDRICKSON

H. G. HERSHEY

C. R. KEYES

G. B. MACDONALD

F. H. MENDELL

F. F. RIECKEN

E. B. SPEAKER

J. M. AIKMAN, *Chairman*

*Coordinating committee*

L. C. CRAWFORD

L. A. KNOWLER

G. D. LOVELL

L. A. UNDERKOFFLER

R. A. NELSON

## **Report on the Distribution of the Proceedings of the Iowa Academy of Science Covering the Year March 1, 1949 Through February 28, 1950**

The Proceedings of the Iowa Academy of Science still continue to be in great demand both in the United States and abroad. The statistics attached to this report indicate that the distribution of the Proceedings during the last year continues on the high level of the preceding year which was the largest on record. This increase was due to the fact that the Proceedings were distributed to many foreign countries to which exchanges could not be sent during the war years.

Since the war, the Academy has retained on its mailing list many institutions which were not able, on account of lack of paper, to send us publications of a similar value in return. Countries in continental Europe, Japan and even in South America have decreased the number of their scientific publications. All exchanges with China have ceased temporarily although the International Exchange Service of the Smithsonian Institution is continuing to receive, but to hold, shipments destined for Communist China in the hope that exchange relations may be resumed in the not too distant future.

The number of publications received on exchange showed a slight decrease this year over those received during the preceding

year. However, the exchange publications received during the year 1948-49 included many volumes from Japan, Germany and Scandanavian countries issued during the war years. The exchanges with Russian institutions continue to be on an unsatisfactory basis for all American libraries. Russian scientific publications are difficult to obtain regularly.

The increase in the membership of the Iowa Academy of Science has limited the number of copies available for exchange to the danger point. Nine hundred and fifty-nine copies of v. 55 were distributed to members as compared with eight hundred and sixty-two copies of v. 54 sent to members. At the time of the writing of this report, April 15, 1950, only 60 copies remain available to satisfy future demands. The following figures will indicate the distribution of v. 55 of the Proceedings:

Sent to members	959	
Sent on exchange	195	
Sent on subscription	11	
Copies sent as gifts to Iowa Libraries, Govern- ment Agencies, and Abstracting Agencies	39	
Total number of copies distributed	1204	
Balance now on hand		75

There is a continual demand for earlier issues of the Proceedings either by exchange or by purchase. The number of copies remaining at the end of the year covered by this report (February 28, 1950) was 75, as compared with 183 copies remaining of v. 54 and 153 copies remaining of v. 53. The 75 copies of v. 55 will not be sufficient for future demands. Since the increase of membership seems to be on a permanent basis and may be extended further, it is obvious that the number of copies printed must be increased if the library is to satisfy the requests for the Proceedings on exchange and sale bases. It is understood that there are plans underway to increase the printing of v. 56 next year by 100 copies.

The detailed statistics follow:

Number of institutions on mailing list to which Proceedings of Iowa Academy of Science have been sent.

	1948/49	1949/50
Domestic	106	106
Foreign	89	94

Number of institutions noted above from which publications have been received.

	1948/49	1949/50
Domestic	89	81
Foreign	57	75

Number of publications received in direct exchange of only Iowa Academy of Science Proceedings.

	1948/49	1949/50
Domestic	155 (pieces)	172 (pieces)
Foreign	131 (pieces)	115 (pieces)

Number of publications received in exchange jointly for Proceedings of Iowa Academy of Science and publications of Iowa State College. (Publications of the branches of the United States government and of experiment stations in the United States are not included in the count of the total number of pieces received).

	1948/49	1949/50
Domestic	227 (pieces)	221 (pieces)
Foreign	248 (pieces)	217 (pieces)

Total number of publications received from institutions to which are sent the Proceedings of the Iowa Academy of Science.

	1948/49	1949/50
Domestic	382 (pieces)	393 (pieces)
Foreign	379 (pieces)	332 (pieces)

Institutions receiving the Proceedings as gifts.

	1948/49	1949/50
U. S. government agencies	7	7
Iowa libraries	25	26
Other libraries	0	3
Publishers of abstracting journals	4	3

Report of Iowa Academy of Science Sales Fund.

Balance on hand	March 1, 1948	\$350.54	March 1, 1949	\$391.54
Sale of Proceedings (plus postage)	1948/49	42.62	1949/50	41.40
TOTAL FUNDS AVAILABLE	1948/49	393.16	1949/50	432.94
Disbursements for Postage	1948/49	1.62	1949/50	4.40
Balance	March 1, 1949	391.54	March 1, 1950	428.54

CHARLES H. BROWN, *Librarian*

## Report of the Committee on the Publication of Stephens' Bibliography of Iowa Birds

After the consideration of the publication of the manuscript of Dr. Stephens by the committee, the Davenport Academy of Science undertook its publication, without the requirement of further aid from the Iowa Academy. This action made further investigation

of publication avenues unnecessary and the Committee requests its discharge.

Respectfully submitted,

JOSEPH C. GILMAN, *Chairman*

JEAN LAFFOON

F. E. BROWN

## **Report from the Academy Conference of the A. A. A. S.**

The Academy Conference, consisting of representatives of the thirty-seven academies of science affiliated with the American Association for the Advancement of Science, met in morning, afternoon, and evening sessions Friday, December 30, 1949 at the Hotel New Yorker in New York City. It was my privilege to represent the Iowa Academy at this annual meeting.

In the morning session, H. A. Meyerhoff, Administrative Secretary of the A. A. A. S. spoke at length concerning the National Science Foundation Bill, its history, nature, and progress to that time in the current session of Congress. Mr. Meyerhoff's remarks were timely, but are no longer of interest to us because the National Science Foundation Act of 1950 (H. R. 4846) has since passed the House of Representatives. This bill, however, differs in many respects from the bill previously passed by the Senate, and from the bill that the Committee in Interstate and Foreign Commerce reported out last summer. It is a much inferior bill; one that in its present form will not be acceptable to most scientists. One objectionable feature is a ceiling of 15 million dollars on appropriations; another provides that no scholarships shall be awarded unless the candidate has been investigated and approved by the F.B.I., and that no one shall be employed by the Foundation without the same approval. A committee from the Senate and House met April 4 and 5 and April 19 to iron out differences between the two bills. Most of the conference time was consumed by a prolonged discussion of the loyalty provisions of the House bill. A compromise seems likely with the provision that employees, contractors and their employees, scholarship holders, and fellowship holders who have access to material affecting national security will be the only ones subject to investigation by the F.B.I., but that decisions concerning the people so investigated will be made by the National Science Foundation and not by the F.B.I. The conference has

reached an agreement to accept the House ceiling of \$15,000,000 a year on appropriations for the Foundation. This can be increased, however, by separate acts of Congress.

The only other speaker at the morning session was W. A. Macfarlane, of England who spoke on the organization of science in the United Kingdom. He reported that in England the results that we hope to attain by the National Science Foundation are effectively accomplished by much more indirect means.

Most of the afternoon session was devoted to the address of Watson A. Davis, Director of Science Service, Washington, D. C. His subject was, A National Program for the Science Talent Search. I shall include a few quotations from his report:

“The circumstances that bring an Einstein or a Curie to the height of creative fruitfulness, revolutionizing our physical and mental concepts and enriching the world’s essential knowledge, have been fortuitous in the extreme. Only a few of the acknowledged scholars and scientists become true innovators of civilization. To hope to put a finger upon the individual likely to be creative of the new, may seem over-ambitious and futile. Yet that is the responsibility of every adviser of youth and every dispenser of educational opportunity — whether scholarships, the right to enter a college, or parental permission to continue in school instead of going to work.

“The younger the selection is made the more daring it is. Those who pick for post-graduate fellowships have had much of their winnowing done for them as the achievement of a graduate degree is highly selective.

“If the youngsters in nursery school could be screened with assurance that future scientists could be identified, it might save much time and educational effort. That is hardly possible now, and probably never will be. To suggest it may be considered asocial.

“Less than a decade ago a nationwide attempt was begun to search for creative science talent among the seniors of the secondary schools of the United States. The Ninth Annual Science Talent Search for the Westinghouse Science Scholarships is being conducted during the school year 1949-50. It will culminate in early March 1950, with the Science Talent Institute at Washington, D. C., attended by the 40 winners from all parts of the United States.

“Science Service, the institution for the popularization of science, with trustees from the National Academy of Sciences, the National Research Council, the American Association for the Advancement of Science, the E. W. Scripps Estate and the journalistic profes-

sion, created the National Science Talent Search as one of the activities of its Science Clubs of America.

"Because we realize that the youth movement for science must be local, Science Service is actively promoting the holding of science fairs as a yearly culmination to the science club programs. In a dozen cities and more, these fairs — exhibitions of the things that the boys and girls have done — have been held in the spring for a number of years. Newspapers often join with the schools in organizing them.

"The first National Science Fair will be held May 19-21, 1950 at Philadelphia. To it a score of cities are expected to send boy and girl top winners from their local fairs. Newspapers cooperating with Science Service and local and state science organizations will make this one of the most promising means of motivating the great movement of science for youth.

"Entrants in the current Science Talent Search have a double chance at scholarships in science if they live in Alabama, District of Columbia, Georgia, Illinois, Indiana, Iowa, Louisiana, New England, Minnesota, Montana, Pennsylvania, Tennessee, Virginia, West Virginia, Wisconsin, South Dakota or Texas.

"The world cannot have too many great creative scientists if it is to push ever outward the frontiers of human knowledge and understanding — the precious progress that must lead to peace and plenty."

The speaker at the Academy Conference Dinner, held in the evening of the conference day, was William G. Pollard whose subject was, the Oak Ridge Institute for Nuclear Studies and the Atomic Energy Program in the Associated Universities.

F. G. BROOKS

## **Report of the High School Relations Committee of 1950**

At the meeting in Des Moines on April 8 and 9, 1949 the Junior Academy of Science of Iowa met a week in advance of the Senior Academy in order to avoid a vacation period that would have occurred a week later in the Des Moines Schools. The annual meeting was held at the Des Moines Technical High School in conjunction with the City Science Fair of the Des Moines Public Schools.

A very fine group of exhibits had been prepared by a number of

the clubs. A report of the awards was made in the report of the 1949 committee.

Quite a large number of papers were written for the 1948-49 essay contest. While the papers are written by individual club members the awards are made in the name of the club to which the writer belongs. The executive committee of 1949-50 recommended that the name of the author be placed on the certificate beginning with the 1950 awards.

On September 10, 1949 the executive committee met at the Memorial Union at Iowa City to plan the year's work. Those present were Seymour Rafferty, President; Elsa Schmidt, Vice-president; Dean W. Johnson, Secretary; Jean Grant, Treasurer; Paul Schenken, Senior Councilor; Roger Isaacson, Junior Councilor; Harold Yeoman, Senior Director of Essays; and Dean C. Stroud, Permanent Secretary and Chairman of the High School Relations Committee.

Items of business recommended for activities of the Junior Academy for 1949-50 were as follows:

1. Ways and means for increasing club membership in the Junior Academy. Ideas presented included the following:
  - (a) Get publicity at Tri-County Institutes.
  - (b) Let teacher-training courses know about the Junior Academy.
  - (c) Continue membership promotion by the vice-president.
  - (d) Use descriptive folders about the Junior Academy.
  - (e) Give publicity at the state teachers convention.
2. When presenting exhibit awards include the names of the persons who prepared the exhibits.
3. To continue the present method of recognizing essays and add the name of the writer to the certificate that is awarded to his or her club.
4. That the delegate assembly of 1950 vote for a club that in turn shall name one of its members to hold the office for which that club was chosen, the name of the officer to be forwarded to the office of the permanent secretary by May 1, 1950.
5. That E. A. Kurth of Grinnell be asked to serve as Junior Director of Essays. He accepted to serve in this position.
6. That the Vice-president of the Junior Academy should be responsible for receiving reservations and money for any luncheons and/or dinners that would be held at the annual convention.
7. That we contact the Iowa Department of Health and offer any service we can render in their program for the year. This gesture was well-received by the Department as indicated in a letter from Mr. Leonard C. Murray, Director of the Division of Public Health Education.

It is gratifying to know that the membership of clubs in the Junior Academy is the largest in several years. Of a total of twenty-



three clubs fifteen are renewals and eight are new clubs. These twenty-three clubs represent a pupil membership of 317 boys and 268 girls, a total of 585. The clubs are distributed in the state as follows:

Marion	City High	Zeta Mu Epsilon
Fort Madison	City High	Alpha Beta Chi
Fort Madison	Catholic Central	Central Science Club
Des Moines	Amos Hiatt Jr. High	General Science Club
Des Moines	Roosevelt High	Math.-Science Club
Cedar Rapids	Wilson High	S. O. S.
*Cedar Rapids	Roosevelt High	Microscope Club
New Hampton	City High	Tri-Sci
Sioux City	East High	East High Chemists
*Waterloo	West High	Nascent's
Grinnell	City High	Kappa Kappa Kappa
Grinnell	City High	Freshman Club
*Newton	City High	Science Club
*Knoxville	City High	Knoxville Kamera Klub
Panora	City High	Science Club
Ames	Central Jr. High	Central Science Club
*Charles City	City High	C <sub>2</sub> H <sub>2</sub> Club
*Dubuque	St. Joseph Academy	S. O. S.
*Cresco	City High	Tube and Shutter
Cedar Falls	City High	Alpha Beta Kappa
*Oskaloosa	City High	Senior Sci. Club
Keokuk	City High	Phi-Chem
Winfield	City High	Camera and Science Club

Under the leadership of Junior Councilor, Mr. Roger Isaacson, the Tri-Sci club of New Hampton has published a News Letter. These issues have been some of the best that the Junior Academy has ever had. They have been prepared entirely in printed form and have served to give our publication a definitely professional appearance. These folks are to be congratulated for the fine way in which they have rendered this service to the Junior Academy this year.

The affiliation of the Junior Academy with Science Clubs of America has continued with the usual exchange of information concerning club work in Iowa. Many timely bulletins and club helps have been received from the SCA office.

To continue financial support of the work of the Junior Academy the committee recommends that the appropriation of seventy-five dollars be continued by the Iowa Academy of Science for 1950-51.

The essay contest this year has been in charge of Senior Director Harold Yeoman of Marion and Junior Director E. A. Kurth of

\* New clubs in the Junior Academy 1949-50.

Grinnell. The rating of the essays was done by Mr. O. J. Deeds, Franklin High School, Cedar Rapids and Mr. J. F. Swartzendruber, City High School, Marion.

A very fine program for the 1950 convention was prepared by Senior Councilor Paul Schenken of Fort Madison. We appreciate the service rendered by the City High School and University High School of Iowa City in acting as hosts to the convention.

The committee recommends the appointment of the following people as adult advisors for the Junior Academy for 1950-51:

Senior Councilor — Roger Isaacson of New Hampton.

Junior Councilor — A. M. Baker, West High, Waterloo.

Senior Director of Essays — E. A. Kurth of Grinnell.

Junior Director of Essays — S. M. Pattee, Roosevelt High, Cedar Rapids.

Permanent Secretary — D. C. Stroud, Amos Hiatt School, Des Moines.

This report is respectfully submitted by the membership of the committee.

D. C. STROUD, *Chairman*

DR. L. P. JOHNSON, Drake University

DR. J. W. KERCHEVAL, Iowa State Teachers College

## **Report of the Committee on Science Talent Search to the Iowa Academy of Science at Iowa City, April 22, 1950**

Ten secondary school seniors were placed on the Iowa Honor Roll as a result of the Third Iowa Science Talent Search conducted in 1949. The certificates were awarded April 9 at the meeting of the Junior Academy of Science of Iowa in Des Moines, Iowa.

During the spring, as each of these students selected a college at which he wished to continue his education, a letter was written to that college by this committee. This letter recommended that the college grant a scholarship or remission of tuition to such student and requested that all blanks required for securing such scholarship or remission be sent to the student without any request from him. Of course all of these students had recommendations written by other persons but it is gratifying that all received such grant or remission except our first place winner whose total cash prizes were \$800.00. The reason given for not granting a further scholarship was lack of need.

A little later than the optimum date, an announcement was sent to each of the secondary schools in the state of Iowa calling atten-

tion to the Science Talent Search for 1950 and urging participation in it. The notice did not reach some schools until so near the closing date that no plans could be made to carry out science projects during the summer vacation.

Just as secondary schools were opening in the fall a second mailing to each secondary school in Iowa called attention to the Fourth Iowa Science Talent Search and the Clinton Foods Science Scholarships. Reports from Margaret E. Patterson, Secretary of Science Clubs of America, indicate that 99 teachers asked for 623 sets of blanks and examinations for this search.

About 50 of the best papers originating in Iowa were received during the latter part of February. By correspondence and circulation of the papers by mail the number of candidates was reduced somewhat. At a meeting held in Grinnell on April 1 in the office of Professor Grant O. Gale, those to be placed on the Fourth Iowa Honor Roll were chosen, and the nine chosen were ranked for the award of the Clinton Foods Science Scholarships.

James Leroy Wickliff of the Coon Rapids High School was ranked first and awarded the \$500.00 scholarship.

James Robert Winkelman of the Charles City High School and Lillian Ann Winter of St. Joseph Academy, Dubuque were ranked second and each was awarded a \$200.00 scholarship.

James Robert Anderson of Ames High School and Donald Edward Henchal of St. Mary High School, Marshalltown were tied for a second and a third place and each was awarded a scholarship of \$125.00.

Barbara Jean Grant of Cedar Falls High School, Richard Francis Jackson of St. Mary High School, Marshalltown, Norman Story Kerr of Charles City High School, and William David Ohlsen of Ames High School were ranked third and each was awarded a \$50.00 scholarship.

The awards were formally made by George T. Peckham, Jr., Research Director of Clinton Foods Incorporated at a Joint Meeting of the Iowa Academy of Science and the Junior Academy of Science of Iowa at 11:30 April 21, 1950 in the Old Capitol Building.

Already seven of these students have chosen the colleges they expect to attend and letters of recommendation are being written for them.

Clinton Foods Incorporated has indicated its intention to appropriate funds for scholarships for winners of the Fifth Iowa Science

Talent Search and announcements are in preparation for mailing to the secondary schools of Iowa.

E. R. BECKER  
F. E. BROWN, *Chairman*  
GRANT O. GALE  
J. V. MCKELVEY  
PAUL A. PARENT

## **Report of the Biological Survey Committee to the Iowa Academy of Science**

The Biological Survey Committee has been relatively inactive the last two years. The former chairman had left the state, one of the members had died, another was retiring, and the present chairman has just been appointed since the last meeting of the Academy. Several additional new members will be appointed shortly.

The Committee's primary interest is study of the biological resources of the state, and recent publications in the Proceedings of the Academy, including some to appear in the issue representing the current session, covering the floras of various parts of the state, and covering particular families of insects, and groups of plants, are representative of the specific activities of members of the Committee. Numerous other published studies, in the fields of taxonomy and ecology, constantly are appearing, but lack of funds has made it impossible to attempt as yet a formal organized survey of the plant and animal life of Iowa. However, the actions of the Committee will remain directed in that direction.

The Committee would be interested in having its attention called to the need for specific projects in the realm of its activities, or to the existence of researches already underway. It would be happy to serve as a clearing house or correlation center for the dissemination of news dealing with biological surveys.

MARTIN L. GRANT, *Chairman*  
H. E. JAQUES

## **Report of the Committee on Finance and Endowment**

The Committee on Finance and Endowment has reviewed the report of the Treasurer. The purchase of bonds recommended by

this committee last year has been effected and no new business for the committee has arisen during the fiscal year.

We commend Dr. Gouwens for the excellent manner in which he has carried forward the Academy's business and extend him the sincere thanks of the committee and the Academy therefore.

Respectfully submitted,

ROBERT S. CASEY  
L. P. JOHNSON  
R. A. NELSON  
JOSEPH C. GILMAN, *Chairman*

### **The Report of the Committee on Necrology**

The committee reports the passing away of the following members during the year: J. W. Dole, F. M. McGaw, Lewis Miller, C. E. Seashore, Lothrop Smith, F. C. Stanley, H. E. Summers, and ask that this report be accepted by a rising vote in tribute to these now deceased. Memorials to these recent members have been prepared and will be published in THE PROCEEDINGS.

Respectfully submitted,

ELMER E. MOOTS  
J. RUSSELL JENNESS  
G. W. STEWART  
J. N. MARTIN  
GEORGE GLOCKLER, *Chairman*

### **Report of Resolutions Committee, 1950**

WHEREAS the Iowa Academy of Science has completed its sixty-second session, one of the most successful and enjoyable of its annual meetings,

BE IT RESOLVED, that the secretary be instructed to express the gratitude of the Academy to the State University of Iowa for its hospitality and the use of its physical plant, and to the Local Committee for its foresight in making appropriate arrangements for the facilities enjoyed by the sessions of the Academy, and that special acknowledgement be made to Dean Bruce E. Mahan, and his secretary, Miss Carol E. Beals, who helped so generously, and particularly to Dr. Norman C. Meier who paid attention to every detail and saw that nothing was lacking in arrangements.

BE IT RESOLVED, that the Academy continue its active support of the activities of the Junior Academy, and that the Secretary be instructed to extend special thanks of the Academy to Clinton Foods for the generous awards to the prize winners in the Science Talent Search.

Respectfully submitted,

G. O. GALE

C. W. LANTZ

E. R. BECKER