

Proceedings of the Iowa Academy of Science

Volume 60 | Annual Issue

Article 4

1953

Reports: The Secretary; The Treasurer; The Editor; Committee Reports

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Recommended Citation

(1953) "Reports: The Secretary; The Treasurer; The Editor; Committee Reports," *Proceedings of the Iowa Academy of Science*, 60(1), 26-50.

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Chairman, Drexler and Gale, announced that they had selected the paper "The annual contribution of meteoritic dust to the mass of the earth" by Warren J. Thomsen for the 1952 prize award of fifty dollars.

The Nominating Committee presented the following slate of officers for the year 1953-54.

President—H. Garland Hershey, Iowa City
 Vice-President—R. W. Getchell, Cedar Falls
 Secretary-Treasurer—Cornelius Gouwens, Ames
 Editor—F. G. Brooks, Mount Vernon

Nominations were closed and these officers declared elected. President A. R. Lauer yielded the chair to the new President, H. Garland Hershey.

The Chairman of the sections of the Academy for 1953-54 were announced.

Botany—R. F. Thorne, Iowa City
 Chemistry—Inorganic and Physical—R. E. Rundle, Ames
 Chemistry—Organic and Biological—B. R. Bluestein, Cedar Rapids
 Geology—M. A. Stainbrook, Brandon
 Mathematics—J. O. Chellevoid, Waverly
 Physics—G. C. Leu, Pella
 Psychology—C. F. Haner, Grinnell
 Science Teaching—no election
 Zoology—M. J. Ulmer, Ames

President Hershey announced that the 1954 meeting will be held in Ames and the 1955 meeting in Davenport. The Academy was then adjourned.

CORNELIUS GOUWENS, *Secretary*

Report of Secretary

The Section Chairmen of the Academy have arranged the usual excellent program for their respective sections, thus assuring that the 1953 meeting of the Iowa Academy of Science will be and is a complete success. As of March 1 our membership totals 1,212, listed as Honorary 1, Emeritus 12, Life Fellows 17, Fellows 328 and Associates 854. It seems that many of these associates would be willing and happy to pay a two dollar entrance fee and become fellows of the Academy. I urge them to do this. The Chairman of the Standing Committees have been alert to their duties. The Editor of the Proceedings is to be complimented on getting the 1952 volume off the press so early in the year. It was a little hard

on the treasury to have two volumes distributed in one year, for it did cost the Academy about \$300.00 to distribute just the 1952 volume alone.

The influence of our Academy is being spread farther and farther. At present almost 300 of our members live outside of Iowa. Then too, our librarian sends out about 300 copies in exchange and sale to libraries and abstracting agencies and research institutes. Many of these go out of the State and even outside of these United States.

During the year President Lauer appointed Clifford McCollum to serve as chairman of the Science Teaching Section to replace Emery L. Will who left the State and resigned. Martin L. Grant was reappointed as chairman of the Biological Survey Committee and John A. Bath was named to the Library Committee. E. R. Smith, R. V. Drexler and J. E. Cable were named to serve as a jury to select the prize award paper of 1952. Mr. Cable was not available at the time of judging so Grant O. Gale was appointed to take his place. F. E. Brown should be complimented for his continued efforts in the Science Talent Search and the distribution of prizes from money donated by the Clinton Foods Corporation of Clinton, Iowa.

The Academy accepts with gratitude and appreciation a gift of fifty dollars by Herbert Osborn, the only surviving charter member of the Academy to be used on some project acceptable to the Academy.

The Academy Conference sponsored by the A.A.A.S. is growing in importance. The Conference is organized and has adopted a constitution. The Iowa Academy made a gift of five dollars to the budget of the Conference. Dr. F. G. Brooks represented the Iowa Academy at the 1952 conference held in St. Louis.

CORNELIUS GOUWENS, *Secretary*

Treasurer's Report

March 1, 1953

Receipts—Current Expense Account

Balance on hand March 1, 1952		\$ 661.42
Dues*	\$1,256.00	
A.A.A.S. Grant	193.50	
Gift—Herbert Osborn	50.00	
Interest	87.50	
Postage refunded	0.45	
Sales	71.08	
Redeposit of returned checks	2.00	
Total	\$1,660.53	
Total Receipts		\$2,321.95

Expenditures

Stationery, Printing		\$ 366.67
Postage	483.80	
Editor's office expense	31.91	
Secretary's office expense	39.10	
Freight, Proceedings	136.29	
Bank charges	17.28	
Bad checks returned	4.00	
Purchase of Proceedings	6.98	
Membership Committee expenses	2.35	
Secretary's conference fee	5.00	
F. G. Brooks, Academy Conference	25.00	
Dr. Herbert Feigl, Honorarium	100.00	
F. G. Brooks, Editor	100.00	
Adolph F. Voigt, Academy Prize	25.00	
Ruth Powers Yaffe, Academy Prize	25.00	
D. C. Stroud	25.00	
Junior Academy	75.00	
Ralph L. Langenheim, A.A.A.S. Grant	96.75	
Cornelius Gouwens	100.00	
J. Harold Ennis, A.A.A.S. Grant	96.75	
Transfer to Savings Account—Bond Interest	87.50	
Transfer to Savings Account—Fellows Fee	28.00	
Total	\$1,877.38	

Balance on hand March 1, 1953 on deposit		
Union Story Trust and Savings Bank, Ames, Iowa..		\$ 444.57

*This includes \$527.00 for 1953-54 dues collected before March 1, 1953.

Savings Account

Balance on hand March 1, 1952		\$ 586.94
<i>Deposits</i>		
Interest	\$ 8.32	
U. S. Bond Interest	87.50	
Fellow Fee	28.00	
	<hr/>	
Total	\$ 123.82	
Balance on hand March 1, 1953 on deposit		
Union Story Trust and Savings Bank, Ames, Iowa..		\$ 710.76

Statement of Total Assets

U. S. Treasury bonds—Series F		
Face value \$1000.00, purchased December, 1943		
Due 1955. Present Value	\$ 900.00	
U. S. Treasury bonds—Series G	3,500.00	
Savings Account, March 1, 1953		
Union Story Trust and Savings Bank	710.76	
	<hr/>	
Total Endowment Fund		\$5,110.76
Checking account current funds on deposit		
Union Story Trust and Savings Bank	444.57	
	<hr/>	
Total assets, March 1, 1953		5,555.33
	<hr/>	
Total assets, March 1, 1952	5,622.36	
	<hr/>	
Loss in assets during year	67.03	
	<hr/>	

CORNELIUS GOUWENS, *Treasurer*

Report of the Auditing Committee

We, the auditing committee of the Iowa Academy of Science have examined the books and records of Cornelius Gouwens, Secretary-Treasurer of the Academy, for the period of March 1, 1952 to February 28, 1953 inclusive, and find them to be in good order and correct. We believe that the secretary-treasurer should be commended for his diligent and careful attention to the duties of his office.

Signed: CHARLES S. REDDY
RICHARD B. MCHUGH

Report of the Executive Committee

The Executive Committee met on Friday afternoon at 3:30 p.m. in the President's Room, Merner Hall. Present were Lauer, Brooks, F. E. Brown, J. C. Gilman, Gouwens, Grant, Helmick, Hendrickson, and Hershey.

Reports by the Secretary, Treasurer, Auditing Committee, Editor and the Librarian were read and filed. Reports were made for the Standing Committees by Grant for the Biological Survey, Hendrickson for Conservation and J. C. Gilman for Finance and Endowment. Stroud's report for the High School Relations Committee and Oelke's report for the Membership Committee were read by the Secretary. F. E. Brown made a report for the Science Talent Search Committee. These will all be read or summarized at the business meeting of this Academy on Saturday morning.

Dr. Grant inquired on the possibility of having the Academy support the publication of a pamphlet by Cleary on his research project on fish in the various river basins of Iowa. It was thought that perhaps the Iowa Resources Board or the State Conservation Commission might support the project. President Lauer asked Dr. Grant to look further into the question and to report to the Executive Committee.

Dr. F. E. Brown moved that the fifty dollar gift by Herbert Osborn be added to the present three hundred dollar revolving fund and that this revolving fund should now be designated as the Herbert Osborn Revolving Publication Fund.

It was moved to accept the invitation of St. Ambrose College and the Davenport Museum to the Academy to meet in Davenport in 1955, and was moved that the invitation by Grinnell to come there for a meeting of the Academy in the near future be placed on file for later action.

The requests for grants for aid in research were referred to the committee on Finance and Endowment for further study.

CORNELIUS GOUWENS, *Secretary*

Report of the Committee on Finance and Endowment

The Committee on Finance and Endowment has examined the treasurer's report and note that the costs of operation have increased to a point where the income was a little less than the outgo. There was a special reason for this situation:—the secretary-

treasurer distributed two volumes of the proceedings during the fiscal year. The additional cost of the distribution of the second volume was greater than the depreciation in our total assets. Since such a condition is not likely to repeat itself, we think the academy is in excellent financial condition and express our appreciation of the secretary-treasurer on the way he has cared for the Academy's interest.

Respectfully submitted

JOSEPH C. GILMAN, *Chairman*

ROBERT S. CASEY

LELAND P. JOHNSON

ROY A. NELSON

Report of the Editor

Volume 59 for 1952 was received from the printer in December. The Verstegen Company of Sioux City not only gave us a fine job of printing, but was also cooperative at every stage of the publication process. Sixteen hundred copies were printed. The volume contained 580 pages.

BIOLOGICAL ABSTRACTS has asked me, as editor, to look after the matter of furnishing it with abstracts of papers in the fields of life science. Next year abstract blanks will be sent with the galley proof to authors of the botany and zoology sections. Authors in other sections who would like to have abstracts of their papers published in BIOLOGICAL ABSTRACTS may write to me for the forms.

It has been suggested that we draw up a form sheet or a booklet of instructions for the use of graduate students who are preparing their first papers for publication in THE PROCEEDINGS. This will be done and such aids will either be sent to department heads at our universities and colleges or will be published in Volume 61.

Your editor would like to emphasize the responsibility of the section chairmen in selecting the papers to be published from those presented in their respective sessions. The section chairmen are in reality members of the editorial staff and only with their assistance can competence in all fields of the sciences be brought to bear in editing THE PROCEEDINGS.

F. G. BROOKS, *Editor*

**Report on the Distribution of the Proceedings of
The Iowa Academy of Science to Exchange Institutions
March 1, 1952 to February 28, 1953**

For the sixth consecutive year the number of copies of the Proceedings of the Iowa Academy of Science sent to exchange institutions has shown an increase, although the increase for the year covered by this report is slight. In 1951/52 the Proceedings of the Iowa Academy of Science were sent to 290 institutions; in 1952/53, to 297 institutions. However, a number of institutions were dropped from the mailing list, on account of their failures to send comparable publications on exchange, and were replaced by institutions with more valuable publications available for exchange.

The number of individual issues of publications received on exchange involving the Proceedings of the Iowa Academy of Science increased in 1952/53 to 2,177 pieces as compared to 1,116 pieces received in 1951/52. This large increase was due chiefly to the receipt of many files of scientific periodicals from the U.S.S.R. and Japan. Some of these periodicals are rare and few copies are available in the United States; in one case at least no other copy could be located in this country.

The following statistics indicate the details of the distribution for 1952/53 and a comparison with the previous year.*

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

	1951/52	1952/53
Domestic	161	163
Foreign	129	134
	290	297

Total number of publications received in exchange involving the Proceedings of the Iowa Academy of Science. (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.)

	1951/52	1952/53
Domestic	471 (pieces)	778 (pieces)
Foreign	645 (pieces)	1,399 (pieces)
	1,116	2,177

*During the year 1952/53 two volumes of the Proceedings, Volume 58 and Volume 59, were distributed.

Detailed analysis of the distribution of Volume 59 of the Proceedings of the Iowa Academy of Science.

	Volume 59
Sent to Members	1,101
Sent on Exchange	248
Sent on Subscription	14
Copies sent as gifts to Iowa libraries, Government agencies and Abstracting Societies	38
Total number of copies distributed	1,401
Copies available on Exchange	223

Institutions receiving the Proceedings as gifts.

	1951/52	1952/53
U. S. government agencies	7	7
Iowa libraries	24	24
Other libraries	3	3
Publishers of abstracting journals	4	4

Report of the Iowa Academy of Science Sales Fund.

		1951/52		1952/53
Balance on hand	March 1, 1951	\$459.54	March 1, 1952	\$495.75
Sale of Proceedings (plus postage)	1951/52	39.09	1952/53	71.08
TOTAL FUNDS AVAILABLE	1951/52	498.63	1952/53	566.83
Disbursements for Postage	1951/52	2.88	1952/53	6.08
Balance	March 1, 1952	\$495.75	March 1, 1953	\$560.75

CHARLES H. BROWN, *Librarian*

Report of the Membership Committee

The membership committee of the Iowa Academy of Science, consisting of the undersigned, has been active during the last several months in the solicitation of new members. The membership of the committee has continued intact from last year, and I am happy to announce the addition of U. A. Hauber of St. Ambrose College to cover the vital Davenport area.

The fine work of the committee members has been supplemented this year, as in the past, by the praiseworthy efforts of countless academy members who have sent in new names from all over the state. In addition to this the attached letter went out to about fifty educational institutions together with pamphlets describing the work of the academy. Your chairman is exceedingly grateful for all the help he has received from various sources in the carrying on the work of maintaining academy membership.

The committee wishes to present the following for election to the Iowa Academy of Science:

Election as Fellow—(20)

Bernard R. Bluestein, Cedar Rapids; T. A. Brindley, Ames; Milton Richard Canfield, Ames; Robert J. Dolter, Dubuque; Burrill Freedman, Des Moines; William Francis Hewitt, Jr., Des Moines; Arthur L. Hooker, Ames; Wayne F. Keim, Ames; Eugene E. Levitt, Iowa City; Wm. F. Lynch, Davenport; F. P. Ralston, Knoxville; Karl A. Riggs, Jr., Ames; L. H. Saxe, Jr., Iowa City; Reese B. Schmidt, Fort Madison; Elmer Bradley Siebrecht, Ames; Marr D. Simons, Ames; M. F. Smiley, Iowa City; James M. Vinje, Davenport; Mary M. Vinje, Davenport; Seymour L. Zelen, Iowa City.

Transfer from associate to fellow—(1)

D. N. Marquardt, Cedar Falls.

Reinstatement—(1)

Louise Gackle, Muscatine.

Election as associate—(141)

John A. Aitchison, Galesburg, Illinois; Vernon D. Archer, Burlington; William Azbell, Waverly; Robert S. Baker, Ames; Gordon W. Ballmer, Grinnell; William V. Bartholomew, Ames; Thomas J. Bassler, Clinton; John W. Baxter, Ames; Arthur H. Blue, Mt. Vernon; Bernard Bornong, Davenport; Harold B. Bryant, Oelwein; G. J. Buck, Ames; Eugene A. Bundy, Maquoketa; Donald L. Burgoyne, Cupertino, California; Robert L. Burham, Washington; Kenneth D. Burnham, Iowa City; James Lee Cabalka, Forest City; Kenneth Caldwell, Rome; Buchanan Cargal, Ames; John B. Carlson, Ames; Joseph Caulfield, Bettendorf; C. E. Chase, Decorah; Ting Ye Chu, Ames; Stanley Coppock, Jr., Ames; H. C. Cox, Ames; J. Lester Dalton, Davenport; Robert A. Davidson, Iowa City; E. L. Denisen, Ames; William A. Deskin, Fayette; John P. DiCostanzo, Davenport; James E. Dimit, Grinnell; John M. Dunleavy, Ames; Russell R. Dutcher, Amherst, Massachusetts; Scott H. Eidt, Ames; John L. Ellingboe, Ames; Robert W. Embree, Griswold; Robert M. Engelbrecht, Iowa City; Arthur W. Engelhard, Ames; Bette Evans, Washington, D. C.; Bradley Evert, Mt. Pleasant; Mahlon L. Fairchild, Ames; Alvin J. Feulner, Iowa City; Catherine M. Feulner, Iowa City; H. P. Field, Decorah; Milton L. Forbes, Cedar Falls; G. Edgar Folk, Jr., Iowa City; Hazel Metz Fox, Ames; Wilmut G. Fruehling, Waverly; Richard Furjanic, Mt. Pleasant; Pilar A. Garcia, Ames; J. Jerome Glowacki, Davenport; Richard Glowacki, Davenport; Harry Goheen, Ames; Vernon D. Gossage, Ottumwa; Stanley C. Grant, Cedar Rapids; J. E. Ross Greenshields, Saskatoon, Saskatchewan, Canada; John F. Griffith, Ames; Donald G. Hager, Grinnell; John W. Hall, Minneapolis, Minnesota; Mary Everly Hammack, Iowa City; Richard O. Hampton, Ames; D. W. Hansen, Decatur, Illinois; Leland Harris, Iowa City; Richard C. Hennemuth, Ames; Charles Huff, Fairfield; M. D. Huffman, Ames; Ada Elsa Izcoa, Iowa City; Bruno Jaselskis, Ames; Richard Jensen, Mt. Pleasant; Chun Juan Kao, Iowa City; Arthur Alonzo Karwath, Davenport; Donn Wayne Klingman, Ames; Eugene D. Klonglan, Ames; Bernt Laate, Cedar Falls; Matty Eugene Lampson, Davenport; E. P. Lana, Ames; Genevieve L. Leaf, Manhattan, Kansas; Helen C. Loehwing, Iowa City; Fred H. Lohman, Ames; Wallace R. McAllister, Iowa City; R. C. McCrum, Orono, Maine; J. P. Mahlstedt, Ames; Dale William Margerum, Ames; Dean F. Martin, Grinnell.

nell; John M. Miller, Davenport; Lowell S. Miller, Davenport; Royall T. Moore, Iowa City; Akira Morisako, Des Moines; Ralph Wm. Morris, Iowa City; Arthur I. Myhre, Cedar Rapids; Dan H. Nicolson, Shenandoah; Philip Nordin, Ames; Wm. C. Paddock, Antigua, Guatamala; Robert Worth Park, Ames; Dwight A. Payne, Jr., Cedar Falls; Paul G. Pechous, Davenport; George W. Peglar, Ames; Leo Petri, Waverly; Richard L. Pierce, Minneapolis, Minnesota; Chesley Johnston Posey, Iowa City; Robert Louis Poynter, Iowa City; John L. Proudfit, Woodstock, Illinois; Fred W. Raths, Iowa City; Theodore L. Reid, Ames; Frances A. Ritchey, Iowa City; Charlotte E. Roderuck, Ames; John C. Saam, Iowa City; Eugene M. Schmidt, Burlington; Max Schoen, Cedar Rapids; Charles T. Sehe, Iowa City; John B. Sheeler, Ames; W. D. Shrader, Ames; Clyde R. Simmons, Ames; Robert E. Simpson, Iowa City; Harold G. Smith, Ames; Stuart N. Smith, Ames; Charles D. Spielberger, Iowa City; Kenneth Starks, Ames; William M. Struve, Bettendorf; Francis B. Stute, Iowa City; Virtus W. Suhr, Ames; William J. Swartz, Ames; Robert F. Swensen, Iowa City; Elaine C. N. Taylor, Iowa City; Robert N. Tench, Port Washington, New York; A. C. Thompson, Spencer; Duane E. Thompson, Ames; Dana P. Van Burgh, Jr., Casper, Wyoming; R. B. Van Cleve, Cedar Rapids; Jean M. Voegeli, Iowa City; Carol J. Von Ohlen, Fairfield; H. B. Van Valkenburgh, Mt. Pleasant; Burdette Wagenknecht, Iowa City; Francis L. Walters, Rockwell City; Aleksander Wastalu, Mt. Pleasant; H. Ross Watson, Ames; S. A. Watson, Oskaloosa; Robert C. Weissmann, Ames; S. P. Yang, Ames; David A. Yos, Burlington; Joseph H. Zaletel, Ames.

Respectfully submitted:

L. P. JOHNSON, Drake University
 O. C. KREIDER, Iowa State College
 T. H. LIGGETT, Pella, Iowa
 H. L. DEAN, State University of Iowa
 R. V. DREXLER, Coe College
 R. W. GETCHELL, Iowa State Teacher's College
 U. A. HAUBER, St. Ambrose College
 W. C. OELKE, Grinnell, *Chairman*

Report of the Biological Survey Committee

The committee members have been working in the field and in the laboratory, doing research and writing up the results, in the fields of botany and zoology, studying taxonomic groups, ecological habitats, and geographical areas, as represented in the state, in order that the resources of Iowa might be better known, better understood, and more efficiently used.

Several members of the committee have, during the past year, visited many of our state parks, and other natural areas scattered widely over Iowa, in attempts to help complete the record concern-

ing the kinds of plants and animals and their distribution within the state. Dr. Conard and the chairman of the committee spent the summer teaching and doing research on the flora of the state at the Iowa Lakeside Laboratory, and much of the time was occupied with gathering data on Iowa plant life.

Three of the members of the committee, Dr. Thorne, Dr. Conard, and the chairman, spent five days in August searching for interesting and rare plants in the northern part of the state. The zoologists on the committee were not invited since they do not belong to the Botanical Society of America, which sponsored the trip. We systematically visited about twenty selected prairie, rock-outcrop, marsh, lake, fen, and forest areas across the northern tier of counties in the state, collecting and listing the vascular plants and the bryophytes. Material secured on this trip contributed greatly to three papers being presented at the current meeting of the Academy.

Several students of Dr. Thorne this year completed studies on the Iowa flora, such as R. A. Davidson's manuscript on "The Senecionaeae, Cynareae, and Cichoreae of Iowa", E. O. Beal's "The Distribution of Aquatic Monocotyledons in Iowa", and Sister Mary Angela Pick's "Solidago in Iowa." Many other such survey projects in various fields of zoology and botany have been completed in connection with the several institutions of higher education. As a further illustration, Prof. J. F. Moyer has just completed a study of the Hayden Prairie in Howard Co., and Dr. Wendell Bragonier is studying the oak-wilt disease in its total effect on the biota.

The State Conservation Commission under the direction of Bruce Stiles is doing much to help in the kind of work in which the Biological Survey Committee is interested. The Commissioners and their employees have been most helpful in indirect ways, such as encouraging the preservation of natural areas, and have directly done much to help in the work of the committee. For illustration, Mr. Stiles and two of the Commissioners went along with the committee chairman and two other interested biologists in making a preliminary survey of Pine Hollow State Park. The bill now before the State Legislature, providing for spending \$6 million over a period of six years to improve the state parks, if passed, will do much to improve the physical conditions in some of the best places for biological work in the state.

The chairman of the committee is now serving as State Representative for the Nature Conservancy, which organization is most interested in the preservation of selected biological areas where surveys can profitably be made, now and in the future. We are

much interested in increasing the membership of this organization to make it more effective.

The possibility of assisting in publishing the results of certain biological surveys will be taken up at the Executive Council meeting.

The committee would be happy to receive any suggestions from members of the Academy concerning possible activities, the sponsoring of research projects, methods of publication, etc. I suppose we ourselves are most interested in increasing our knowledge of Iowa biota, and making what is known by some of us more generally available to *all* of us.

HENRY S. CONARD

H. E. JAKES

PAUL MEGLITSCH

ROBERT THORNE

MARTIN L. GRANT, *Chairman*

Report of the High School Relations Committee of 1953

The 1952 convention of the Junior Academy of Science of Iowa was held in Cedar Rapids at the Woodrow Wilson High School with the Roosevelt High School as co-host. The exhibits of the convention were placed on the state-gym of the school. Awards were made by the judges as follows:

SUPERIOR

Roosevelt of Cedar Rapids	Biological Science
Wilson High of Cedar Rapids	Biological Science
Amos Hiatt Junior High of Des Moines	Physical Science

EXCELLENT

Charles City High School	Biological Science
Charles City High School	Physical Science
Wilson High of Cedar Rapids	Physical Science
St. Joseph's Academy of Dubuque	Biological Science
Alpha Beta Kappa, City High, Cedar Falls	Biological Science
Alpha Beta Kappa, City High, Cedar Falls	Physical Science
Roosevelt High, Cedar Rapids	Physical Science
New Hampton, City High	Biological Science
New Hampton, City High	Physical Science
Iowa City, City High	Physical Science

The essay project was conducted as usual by the Senior Director of Essays, Mrs. Sarah G. Brown of Newton. Awards were made as follows:

SUPERIOR

Kay Herrback, Roosevelt High, Cedar Rapids	“RH Factor”
Robert Woody, Senior High, Newton	“Determination of Minerals”

EXCELLENT

Sylvia Blaha, Wilson High, Cedar Rapids	“Bird Migration”
Alice Dee Dvorak, Wilson High, Cedar Rapids	“Conservation”
Marilyn March, City High, Cedar Falls	“Epilepsy”
Mary Jane Tremble, St. Joseph’s, Dubuque	“Penicillin”
Jeanne Benser, St. Joseph’s, Dubuque	“Photographic Development”
Patricia Mengis, St. Joseph’s, Dubuque	“Julian Dubuque Bridge”
Mary Anneté Henry, St. Joseph’s, Dubuque	“Water Purification”

The Executive Committee of the Junior Academy met at Iowa City High School on September 14, 1952. The meeting was called to order by Vice-President Emory Howell of Charles City. Other members present were Secretary, Neal McGuffin, of Cedar Rapids; Treasurer, Dennis Parker of Des Moines; Senior Councilor, Richard Van Dyke of Charles City; Junior Councilor, Everett Alton of Iowa City; Junior Director of Essays, Sister Mary Edwina of Dubuque and Permanent Secretary, D. C. Stroud of Des Moines.

Emory Howell was named as acting president for 1952-53. It was suggested that a revision of the constitution of the Junior Academy be studied with a view of bringing it up-to-date with present practices. The publishing of the Science News Letter, the ordering of a seal, the problem of trying to increase membership of clubs in the JASI, were a few of the more important items that were discussed. The need for a greater number of active clubs that will produce seniors of outstanding ability to enter the field of science to fill the now vacant positions in many fields, is one of our greatest problems.

The membership of clubs to date of this report, April 13, 1953, is 21, of which 4 are new clubs. We have not had an enrollment from 2 clubs even though they have been contacted several times. The roster of clubs is as follows:

Ye Atomic Powers, City High	Denison
Panora Science Club, City High	Panora
S. O. S., St. Joseph’s Academy	Dubuque
General Science Club, Amos Hiatt Jr. High	Des Moines
Charles City Sc. Club, City High	Charles City
Wilson S. O. S., Wilson High	Cedar Rapids
East High Chemists, East High	Sioux City
Biology Club, Roosevelt High	Cedar Rapids
Science Club, City High	Iowa City
Alpha Beta Kappa, City High	Cedar Falls
Riceville Science Club, City High	Riceville
Chem-Phy, High School	Manchester

Science Club, High School Cons.	Tipton
Newton Science Club, Senior High	Newton
Bi-Phy-Chem Club, Senior High	Oelwein
PC ₂ Club, City High	Clear Lake
Chemistry Club, City High	Clinton
Science Club, City High	Oskaloosa
Phi-Chem Club, City High	Keokuk
Tri Sci Club, City High	New Hampton
Campus School Sc. Club, T. C. H. S.	Cedar Falls

The Charles City Science Club under the direction of Mr. Richard Van Dyke has been in charge of the publication of our Science New Letter for 1952-53. They have done a very commendable piece of work. The subscription list has only been 124 this year. We need to increase this number greatly.

The affiliation of the Junior Academy with the S C A has been in effect during the year. The publications of the SCA are always useful in promoting club activities.

The recommendations of the committee to the Iowa Academy of Science are as follows:

1. To continue financial support of the work of the Junior Academy to the amount of seventy-five dollars for 1953-54.
2. That the Iowa Academy of Science continue a promotion program to increase club memberships.
3. That the appointment of the following persons as adult advisors be made for the Junior Academy for 1953-54:
 - a. Senior Councilor—Mr. Everett Alton of Iowa City
 - b. Junior Councilor—W. E. Dedrichson of Tipton
 - c. Senior Director of Essays—Sister Mary Edwina of Dubuque
 - d. Junior Director of Essays—Walter Gohman, Cedar Falls
 - e. Permanent Secretary—D. C. Stroud
 - f. Publications Adviser—Richard Van Dyke, Charles City

Respectfully submitted,

DR. J. W. KERCHEVAL
 DR. L. P. JOHNSON
 DEAN C. STROUD, *Chairman*

Committee on Science Talent Search

In May 1952 the first announcement of the Seventh Iowa Science Talent Search was sent to each superintendent of schools in Iowa if his school system included a senior high school. A second announcement was put into the fall number of the Science Newsletter published by the Junior Academy of Science of Iowa. This number was mailed to every teacher of science in an Iowa secondary school.

Both of these mailings included a two color poster.
<https://scholarworks.uni.edu/pias/vol60/iss1/4>

During the spring and early summer the winners of places on the Sixth Iowa Honor Roll chose schools, and letters requesting remission of tuition and such allowances as the schools make to students who may be expected to do excellent work were requested. All of the ten entered college.

Teachers from 64 schools requested 349 sets of application blanks for the Seventh Iowa Science Talent Search (the Thirteenth National). About February 18, 43 completed sets of papers were received from Science Clubs of America. Nearly one-half of these were hopelessly inferior to the highest quarter of them. About five papers were examined rather critically by each of the members of the committee. Using their advice it was possible to reduce the number to 12 papers. Then these 12 papers were sent to each member in turn. Each of the five members numbered the papers in the order of excellence, completely independently of each other. On March 28 the committee met in Grinnell and made final decisions on the ratings of the candidates. The winners are arranged alphabetically in three groups, for no effort was made to decide the order within a group. The placings are:

1. Don Ward Smith, 256 Thorwaldsen Place, Clinton, Iowa
2. Robert Hamilton Carr, 424 Stanton Avenue, Ames, Iowa
2. Kenneth Louis Castek, RR 1, Fairfax, Iowa, Roosevelt H.S., Cedar Rapids
2. Dorothy Anna Nagel, 1293 Bluff Street, St. Joseph Academy, Dubuque
3. Janet Ruth Pattee, 2505 Johnson Ave., N.W., Roosevelt H.S., Cedar Rapids
3. Martin Omer Schrock, 1259 East 27th St., East H.S., Des Moines
3. Carleton Wallace Smith, 1215 Orchard Drive, Ames, Iowa
3. Dwayne David Stone, 703 Second Street, Knoxville, Iowa
3. William Clair Woody, Reasnor, Iowa, Monroe High School

The names of the nine, without any reference to ranking, were given to the press on Wednesday, April 1. The announcement was printed in home papers of all of winners and several other papers some of which are widely circulated. Several radio stations carried the announcement on their programs. On Thursday, April 16, Clinton Foods, Inc. entertained these nine seniors at Clinton. The entertainment included a tour of the plant, lunch at the cafeteria, dinner at the country club, participation in a half-hour radio program over station K.R.O.S. and a tour of the radio station under the guidance of the manager and chief engineer. They spent the night at Hotel LaFayette and were brought to Mount Vernon Friday morning. Between 11:30 and 12:00 at a joint meeting of the Iowa Academy of Science and the Junior Academy of Science of Iowa they were given their certificates. George T. Peckam, Jr.

Director of Research for Clinton Foods Inc., spoke and presented the certificates.

Plans for next years search, The Eighth Iowa Talent Search are already made. Posters are printed, a letter is prepared and over this week end envelopes will be addressed for sending this announcement to every senior high school principal in Iowa.

The committee wishes to thank Clinton Foods Inc. for their generous support which is absolutely required to carry out this program and also to thank Iowa Academy of Science for its equally essential, enthusiastic support.

ELERY R. BECKER

GRANT O. GALE

J. V. MCKELVEY

JOSEPH I. ROUTH

F. E. BROWN, *Chairman*

Report from The Academy Conference

The annual meeting of the Academy Conference was held in St. Louis December 28, 1952. The events of the Conference consisted of a business meeting, four round-table discussions and the annual Academy Conference Dinner.

The annual business meeting was presided over by President Austin R. Middleton of the University of Louisville. The forty-eight persons in attendance represented twenty-nine of the thirty-eight affiliated academies. After the report of Secretary Leland H. Taylor was given and approved, the following committees submitted their reports:

Committee to Study Opportunities between Academies.

Committee to Study Cooperation of the Academies of Science with the Academy Conference.

Committee to Sponsor the Junior Scientists' Assembly.

An amendment to the Constitution was offered which would provide for an Archivist. Pending the final adoption of that amendment, President Middleton appointed Dr. Clinton L. Baker of Southwestern College, Memphis, Tennessee, as a committee of one to act as Archivist. Doctor Baker distributed to each delegate a 42-page mimeographed book containing a history of the Academy Conference since its founding in 1926. Doctor Baker was commended for the completeness of this historical compilation.

Round-table discussions were held at sessions from eleven to twelve o'clock following the business session and throughout the

afternoon of the same day. The four discussions were based on the following topics:

Responsibilities of Academies of Science in Promoting Improvement in the Teaching of Science in the Public Schools.

The Relations of Academies of Science to College Students.

Relations of Academies of Science to the Public.

The Relations of Academies of Science to the Press.

The delegates to the Academy Conference enjoyed an excellent dinner at the Hotel Jefferson as guests of the A.A.A.S. Following the dinner, an address was given by Dr. Paul Klopsteg of the National Science Foundation on "The Making of Awards and Grants by the National Science Foundation".

The President Elect of the Academy Conference is Wayne Taylor of Denton, Texas. A mimeographed brochure entitled *DIRECTORY AND REPORT ON ACTIVITIES OF THE ACADEMIES OF SCIENCE* was distributed. The page devoted to the Iowa Academy shows it to be the fourth largest academy and in every respect to compare favorably with any of the other academies.

F. G. BROOKS, *Alternate Representative*

Report of the Committee on Conservation

Conservation as a way of life is gaining in Iowa. Many members of this Academy along with other citizens, contributed to the Twenty-five Year Conservation Plan prepared for the Iowa Board of Conservation and the Iowa Fish and Game Commission about 20 years ago. After the Board and the Commission united into the present Iowa State Conservation Commission on May 17, 1935, the new Commission, continued to use the Plan with adjustments that economic conditions and experience indicated. The Commission, cooperating agencies and citizens accomplished a great deal. We shall list some of the most recent accomplishments in conservation in our State.

Some milestones of progress in soil and water conservation were established by Iowa farmers in 1952. When the Soil Conservation District charter was issued to the Howard County people on February 11, 1952, it made Iowa 100 percent with 100 soil conservation districts (Pottawattamie had two districts). The first charter was issued to the Marion County Soil Conservation District in 1940; thus, in a little over a ten-year period the Iowa farmers have completely organized the State of Iowa into soil conservation districts.

Farmers organized these districts to provide for local planning,

development and control of the soil and water conservation program. Districts are managed by three commissioners elected by the land owners. These commissioners have broad powers as set forth in the District Law passed by the Iowa Legislature in 1939 and have authority to go along with their responsibilities. Each district has prepared a program and plan of operation outlining the major problems in the area and the approach that they expect to make to control erosion and provide for a long-time maximum production.

District commissioners seek the help and cooperation of all agencies who can give assistance, including the Iowa Agricultural Extension Service, U.S. Soil Conservation Service, Iowa Agricultural Experiment Station, Iowa State Conservation Commission, Production and Marketing Administration, Farmers Home Administration, County Board of Supervisors and others.

The U. S. Department of Agriculture, Soil Conservation Service and the Iowa Agricultural Extension Service have a memorandum of agreement with each soil conservation district in Iowa setting forth their basis for cooperation. In a number of cases the commissioners have written agreements with the Iowa State Conservation Commission, County Board of Supervisors, sportsman groups and others.

Some of the measurable accomplishments in 1952 are:

new district cooperators	10,221 (bringing the total to date to 38,967)
contour farming	580,800 acres
terracing	1,829 miles
closed drains	24,336,000 lineal feet
farm ponds	753

In addition to the measurable accomplishments in terms of miles and yards, there have been many activities carried on in the state including work with rural and city schools, the summer training program for teachers conducted at Springbrook Park sponsored by the Iowa State Teachers College at Cedar Falls with the cooperation of Soil Conservation Service, Conservation Commission, Iowa State College and others. Sportsman groups throughout the state have continued to support special soil and water conservation projects, including tree planting, gully control, special awards, and other incentives. Radio and press have continued to carry the story of conservation, conservation needs and what is being accomplished, and have also given special recognition to farmers and others who have done an outstanding job during the year.

In addition to all of these items, the Iowa State legislature appropriations provide for \$300,000 annually to be used by soil con-

ervation districts for the employment of clerical and technical people, for the expenses of commissioners and other items.

The preparation of a comprehensive state wide plan for water conservation, probably to be a voluminous work, will not be completed this year.

In order that the waters of the State of Iowa may be used to best advantage, we must have a conservation-minded public. The members of the Iowa Academy of Science can do much to engender this feeling by becoming enthusiastic and active conservationists. As water use enters into all phases of mankind's activities, the importance of having an adequate supply cannot be overemphasized, and the competition for the available supply is becoming increasingly severe. Waste, misuse, or fortuitous development can no longer be condoned.

Cooperation between water users of all kinds is necessary so that a balance can be maintained and all rights protected. Judicious planning must in turn be based on adequate factual data. We must have an intimate knowledge of all water resources throughout the State and the effect of water on soil productivity, erosion, siltation, recreational facilities, fish and wildlife propagation, base flow and flood flow of our streams, sewage disposal, hydroelectric power, and navigation.

Although much is known at present about Iowa's water resources, no adequately substantiated State-wide summation is available, and much detailed information is needed locally throughout the State. The various State, Federal, and local agencies and private industries now gathering such data must greatly expand their activities. Their individual findings must be correlated and combined so as to present as clear and comprehensive a picture as possible. A step forward in this direction has been made by the creation of the Iowa Natural Resources Council; however, a single coordinating agency cannot carry out the entire program as coordination of activities must be done at all stages and levels of programming and project execution.

Through the active participation of members of the Iowa Academy of Science in furthering cooperation of the various conservation organizations of which they are members with other similar organizations, a much more effective water-conservation program can be carried out in Iowa. Demand for a more intensive water-resource study of Iowa befitting its importance to every citizen of Iowa should be made both individually and collectively by this Academy. The

direct and indirect benefits from the expanded and coordinated study would far outweigh the cost.

The most effective efforts in marshland restoration and development have been realized through cooperative arrangement of the Iowa State Conservation Commission and the Federal government. Funds for wildlife restoration are made available by the Federal Pittman-Robertson Act, and the State enabling law. These laws provide that funds from the Federal excise tax on sporting arms and ammunition be apportioned among the states in ratio to their areas and numbers of licensed hunters, and that the Federal government shall supply three dollars to one from the State. With these finances 22 of the natural marsh areas, totaling some 14,000 acres, have been purchased and are now managed for maximum waterfowl production and hunting by capable leaders and technically trained employees. Many other species of song and marsh birds than game are greatly benefited thereby.

The initiation of the Federal Aid to Fisheries Restoration program in 1950, supported by excise tax on sport fishing tackle and State funds as in the Wildlife Restoration Program, has given new impetus to improvement of fisheries water and habitat. Wildlife Restoration funds and Fisheries Restoration funds may be applied to the same project.

In addition to the acquisition of the 14,000 acres of marshlands, several thousand acres of marshlands already in State ownership have been improved by the Federal Aid Section for Wildlife purposes by the construction of water control structures and various management techniques.

Efforts are extending to create and develop permanent marshes on river bottom lands that are unprofitable for general agriculture and that are now too dry for water birds. A typical project of this kind is the new 1,000-acre Sweet's Marsh in Bremer County along the Wapsipicon River. Other marsh projects of this nature are in the process of planning and construction at this time.

In the Conservation Commission's lake dredging program, initiated in 1936 with funds primarily from legislative appropriation, portions of seven lakes were deepened previously to 1951. In the past two years the following lakes have been dredged:

<i>Name</i>	<i>County</i>	<i>Acreage dredged</i>	<i>Lake acreage</i>
Blue	Monona	100	918
High	Emmett	80	467
Ingham	Emmett	80	421

Dredges are working now at Silver Lake in Dickinson County and

Because in many cases dredging alone cannot bring the lakes back to their former productive capacities, additional remedial measures are necessary. A few of these measures are: control of erosion on the watershed and the shoreline, elimination of all types of domestic sewage and pollution, control of objectionable plants and reduction of over-populations of certain fishes. Although fortunately pollution is no longer the menace it was prior to 1940, there is still room for improvement in some lakes. The State Conservation Commission fisheries management section is engaged in a tremendous rough fish removal program and over a million pounds of fish, principally carp and buffalo, are removed from the lakes each year. Bank erosion, now checked on many lakes by rip-rapping with rock, needs more attention. Sheet erosion on the watershed, one of the most acute of the problems, is largely on private lands, and the control rests with the land owners. Agencies engaged in soil conservation practices, including the county, state and federal levels can assist best in this direction.

The Iowa State Department of Health continues to progress in ridding the waters of damaging pollution, but there is still work to be done. Employees have been added to their staff to assist in this work, and effective surveys are going forward at this time.

To the 15 artificial lakes constructed by the Iowa State Conservation Commission in the previous 27 years, the following six were added in the past three years.

<i>Name</i>	<i>Location</i>	<i>Lake acreage</i>	<i>Watershed acreage</i>
Darling	Washington County	302	12,535
Geode	Henry County	205	9,558
Cold Springs	Cass County	16	Springs
Nine Eagles	Decatur County	70	1,147
Rock Creek	Jasper County	640	26,663
Creston	Union County	390	4,910

Many of the artificial lakes in Iowa are located within the boundaries of the State Parks. In 1952 more than 4,000,000 people used the Iowa State Park system, and of this number more than 1,500,000 visited parks containing artificial lakes. This use attests to the popularity of the present-day artificial lakes program.

All of the artificial lakes have sufficient depth to carry fish even in winter when long periods of ice coverage brings the dissolved oxygen content to its lowest level. Most of these lakes have been well-stocked with largemouth bass and bluegills, and occasionally with crappies and bullheads. This combination of fishes seems best suited to these lakes. Although some lakes produce better

fishing than others, by and large all support enough fish to attract Iowa anglers.

Siltation appears to be the most menacing problem in the artificial lakes at this time. Corrective measures are in operation to stop bank, gully and sheet erosion on the lake shores and watersheds by rip-rap and by planting grasses and herbaceous shrubs and trees.

In the artificial lakes over-population of fishes occurs more frequently than under-population, and the crappie is usually the worst offender. To combat this situation, the Conservation Commission has liberalized restrictive laws and regulations by removal of size limits and seasons. Predatory fishes are stocked to the exclusion of others, and in a few instances nets and seines are in use to reduce stunted fish populations.

Lake surveys are conducted annually by the Biology Section of the Iowa Conservation Commission to determine fish management needs. Fish stocking and control methods are carried out by the Commission's Fish Management Section.

A continuing inventory is made of the fishes in major streams by the Biology Section of the State Conservation Commission. Well over 1,000 collections have been made, and at this writing permanent stations have been established at regular intervals along the rivers, which serve to compare the catch from year to year and thus discern trends in population levels. Samples are taken by qualified biologists using fixed nets and moveable seines, and both A-C and D-C electric shocking devices are now in use. An anglers' creel census is taken in the streams of eastern Iowa to supplement the data collected by State crews.

Stream stocking is based on scientifically determined need, and, with the exception of the trout program, is confined quite largely to channel catfish, smallmouth bass and walleye. Most other species apparently maintain populations at sufficient levels. Trout are stocked in some 44 small streams in the northeast section of the state on a put-and-take basis. There is little natural reproduction in these streams, and it is expected that the intensive angling pressure will utilize the majority of trout stocked each year.

Among the endangered birds the greater prairie chicken is under investigation by a graduate student of the Department of Zoology and Entomology, Iowa State College. With the assistance of a Conservation Commission biologist breeding and wintering prairie chickens were found in five southern counties. A verified report of resident prairie chickens has come recently to the Commission from Howard County in northeast Iowa. Conservation officers are

checking recent citizens reports of prairie chickens from five counties of western and southern counties. The National Wildlife Federation, Washington, D. C. recently initiated a coordinated program of prairie chicken conservation in the United States. Bruce Stiles, Director, Iowa State Conservation Commission, is the leader of the program in our State.

The wood duck, once in grave danger, has been restored to numbers that permit limited shooting in nearly all states. In Iowa, two graduate students at Iowa State College, Department of Zoology and Entomology, aided by the local Izaak Walton League, Wapello Chapter, and Conservation Commission employees, constructed nesting boxes which were placed at Lake Odessa, Henry County, for wood ducks. The findings of the young men enabled the Commission through the Federal Aid to Wildlife Restoration section to place advantageously several hundred wood duck nest boxes at other sites with considerable success, and the plan is enlarged extensively this year.

A program of planting trees and shrubs as wildlife cover on private farms has been started by the Federal Aid Section, which has the assistance of local Soil Conservationists as well as local Commission employees and citizen conservationists and clubs in finding and determining the suitable planting sites.

Among the mammals presumably the beaver was extinct in Iowa at one time. Through an extensive transplanting program the Iowa State Conservation Commission has brought the beaver back. At this time beaver are reported from virtually every county in Iowa, and some animals were taken by citizen trappers in 80 of the 99 counties last year.

The white-tailed deer population in Iowa has increased steadily since 1936. In 1940 it was estimated that about 1,000 deer were in the state. An extensive survey conducted by the Conservation Commission in the winter of 1952-'53 may reveal a deer population over 10,000 animals. Although deer have been reported in nearly every county in the State, they are most abundant in about six counties. Several counties are known to have from 200 to more than 1,000 deer, and 39 have 100 or more, of the species.

A law enacted by the Iowa legislature, 1953, removes the deer from the fully protected list. It will be the responsibility of the State Conservation Commission to set seasons, within broad limits, and to designate where, how, and by whom the surplus deer may be harvested. There is no intent to eliminate deer in Iowa, but

controls are necessary to limit the herds to numbers compatible with intensive agriculture and safety of travel on highways.

At the Iowa State College, the Wildlife Research Unit and the Fisheries Research Unit continue to devise and improve census methods for game and fur species, and fishes. The census techniques are used by Conservation Commission employees to determine more accurately the seedstock and harvestable surpluses. Also, growth and production of major species of desirable wild animals in relation to food, cover, and other factors are investigated to establish principles and to devise economical production and harvesting practices for the Conservation Commission and citizen co-operators.

The Conservation Commission continues cooperation with the Department of Botany and Plant Pathology, Iowa State College, in needed research at prairie and wooded preserve and park areas. A recent doctoral dissertation on studies at the Hayden and Kalsow Prairie Preserves, will enable improvement of management practices. Other members of the department continue to investigate the destructive oak-wilt disease, particularly in Pilot Knob State Park, Hancock County, and Ambrose A. Call State Park, Kossuth County. During the past year samples from the bills of more than 300 birds captured at diseased trees have been cultured without positive results. Several chemicals are under test in treatment for the disease, and in attempts to kill diseased trees more quickly to enable their destruction and thus lessen disease spread. To expand the program a full-time tree disease specialist has been added to the department recently.

A graduate student from the Department of Zoology and Entomology, Iowa State College, is assisting in the oak-wilt project by collecting insects at the Parks to determine whether or not any are carriers of the disease.

The black walnut planting program of the Iowa State Conservation Commission, also, deserves commendation. Under a plan inaugurated in September, 1951, five million walnuts will be planted on state-owned forests, parks and wildlife lands. To date some more than one million walnuts have been planted at nearly 100 areas. From its forest nursery the Conservation Commission furnishes stratified walnuts and other forestry stock for game cover and soil erosion control plantings and forest areas at nominal costs to citizens. The Commission recently announced that farmers ordered

750,000 trees and shrubs for wildlife cover and soil erosion control plants to be set out in the spring, 1953.

Respectfully submitted,

GEORGE O. HENDRICKSON, *Chairman*

Committee:	Coordinating Committee:
H. S. Doty	L. A. Knowler
H. G. Hershey	G. D. Lovell
G. B. MacDonald	R. A. Nelson
F. H. Mendell	L. A. Underkoffler
E. B. Speaker	
G. O. Hendrickson	

Committee on Resolutions

Resolved:

1. That the Academy extends sincere thanks to the Administration and Faculty and Housekeeping Department of Cornell College for the excellent accommodations afforded for the meeting of 1953.

2. That we express our indebtedness to Professor F. E. Brown for his continued faithfulness and success in promoting the Junior Academy of Science and the Science Talent Search.

3. That we gratefully commend Clinton Foods, Inc. for their farsighted policy and continued support of the Science Talent Search, and their confidence in the Academy for the administration of their gifts to the young people of the State.

M. F. FRITZ

H. E. JAQUES

H. S. CONARD, *Chairman*

Report of the Necrology Committee

The Committee on Necrology reports the passing of the following members and requests that the audience rise while their names are read: W. E. Albert, J. P. Anderson, E. I. Fulmer, H. A. Mattill, Maurice Ricker, W. J. Rusk.

Respectfully submitted,

DUANE ISELY, *Chairman*

C. P. BERG

F. E. BROWN

R. B. McCLENON

E. R. SPEAKER

H. A. WILHELM