

1976

60th Annual Meeting, 1976. Secretary's Report and Financial Statement

Academy Editors

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ARKANSAS ACADEMY OF SCIENCE

Volume XXX

1976

Proceedings

Joe M. Guenter
President

Jewel E. Moore
President-Elect

John T. Gilmour
Secretary

William L. Evans
Treasurer

Dwight M. Moore
Historian

Secretary's Report

MINUTES OF THE SIXTIETH ANNUAL MEETING — 9-10 APRIL 1976

FIRST BUSINESS MEETING

The first business meeting of the 60th Annual Meeting of the Arkansas Academy of Science was called to order by Dr. Joe Guenter, President of the Academy, at 10:45 a.m., April 9, 1976, at the University of Arkansas at Little Rock. Dr. Guenter thanked the UALR faculty for hosting the meeting, and called on Dr. Gary Heidt, chairman of local arrangements, for an informal welcome. Dr. Heidt announced that a formal welcome would be made at the banquet and provided additional information for the meetings.

Dr. Guenter then called for reports from the officers of the Academy and from representatives of organizations sponsored by the Academy.

Secretary:

The Secretary reported that the minutes of the 59th Meeting held at Southern State College were available at the registration desk. A motion to approve the minutes would be made at the second business meeting. The Secretary noted that pre-registration membership was similar to that before the 1975 Annual Meeting.

Treasurer:

Dr. W.L. Evans, Treasurer, distributed copies of the financial statement and summary for the past fiscal year.

Financial Statement

March 31, 1976

Cash Balance in Checking Account, April 1, 1975	\$1,451.08
Reserve Funds, Savings Certificate, FSLA, April 1, 1975	1,008.67
Reserve Funds, Passbook Savings, FSLA, April 1, 1975	1,951.34
Total Funds, April 1, 1975	\$4,411.09

Income (April 1, 1975 through March 31, 1976)

1. Memberships		\$1,342.00
a. Sustaining (19)	\$ 190.00	
b. Regular (130)	1,040.00	
c. Associate (29)	112.00	
2. Institutional Dues		800.00
3. Subscriptions to PROCEEDINGS		485.00
4. Page Charges for the PROCEEDINGS		687.97
5. Registration Fees, SSC, Magnolia Meeting		116.00
6. Banquet Fees, SSC, Magnolia Meeting		344.00
7. Commercial Reg. Fee (Exhibits) UALR Meeting		100.00
8. AAAS Reimbursement of Research Grant		40.00
9. Interest on Reserve Funds		157.80
a. Certificate (6.5%)	67.18	
b. Passbook Acct (5.25%)	90.62	
Total Income		\$4,072.77

Disbursements (April 1, 1975 through March 31, 1976)

1. Royal Printing Co., Banquet Tickets	\$ 16.17
2. Mrs. Betty Carson, Typing Financial Report	2.00
3. Patrick Lee Vaughan, Talent Search Award	20.00
4. John Yu Hon Yeh, Talent Search Award	15.00
5. Gregory Anthony Supinski, Talent Award	10.00
6. Southern State College, Banquet (\$342+\$14)	356.00
7. Internal Revenue Service, Withholding Tax	6.20
8. Univ. Arkansas, Pay, Printing	8.10
9. Dr. Henry W. Robison, Name Tags	4.00
10. Southern State College, Refreshments	38.00
11. Donnie Keller, Travel Expenses	100.00
12. Univ. Arkansas, Pay, Printing Programs	46.10
13. Phillips Litho Co., PROCEEDINGS, Vol. 28	2,276.20
14. Dr. John Gilmour, Postage	9.12
15. Postmaster, Box Rent, Fall Sem.	6.00
16. Dr. Henry W. Robison, Postage, Newsletter	20.00
17. Postmaster, Postage	5.00
18. Univ. Arkansas, Pay, Printing Newsletter	6.45
19. Mrs. Emily P. Tompkins, Editorial Assistant	163.30

Disbursements (Continued)

20. Univ. Arkansas, Pay, Office Supplies	7.13
21. Mrs. Teresa Gilmour, Dupl., Postage, Mailers	21.21
22. Postmaster, Box Rent, Spring Sem.	6.00
23. Dept. Fin. & Adm., State Tx Withheld	3.00
24. Assn Academies of Science, 1976 Membership	10.00
25. Postmaster, Stamps	13.00
26. Univ. Arkansas, Pay, Stamp Pads	2.78
27. Mrs. Emily P. Tompkins, Editorial Assistant	158.40
28. Univ. Arkansas, Pay, Printing	10.85
29. UALR, Postage	6.95
30. Ark. Collegiate Acad. Sci., Auth. Support	175.00
Total Disbursements	\$3,521.96

Summary

Beginning Balance, Checking and Reserve, April 1, 1975	\$4,411.09
Plus Total Income	44,072.77
Less Expenditures	-3,521.96
Funds Available, March 31, 1976	\$4,961.90

Balance, Checking Acct., Mollroy Bank, March 31, 1976	\$2,319.09
Less Outstanding Check—Item 30 Above	- 175.00
Unobligated Funds in Checking Account, March 31, 1976	\$2,144.09
FSLA Certificate, Acct 71-905 (6.5%)	1,075.85
FSLA Passbook Acct. OP 7679 (5.25%)	1,741.96
Total Funds Available, March 31, 1976	\$4,961.90

Note: Invoice #24453 from Phillips Litho Co., dtd 3/31/76, printing Vol. 29 of the PROCEEDINGS, \$2,387.71 is an outstanding obligation due within 30 days.

Respectfully submitted,

William L. Evans
Treasurer

April 9, 1976

Secretary's Report

After discussion of the financial statement, Dr. Evans also presented a Five Year Summary of Income and Disbursements. He noted that income was greater than expenditures and suggested the possibility of establishing a research fund with surplus monies. Dr. Evans then asked that members informally consider the suggestion so that a motion might be made at the second business meeting.

Five-Year Summary of
Income and Disbursements
Income

Year	Indiv. Dues	Instit. Dues	PROC	Meeting Funds	Interest	Misc.
1971-72	585.00	500.00	377.20	235.00	84.59	--
1972-73	1,529.00	650.00	1,099.20	152.30	112.49	--
1973-74	1,520.00	600.00	1,392.25	--	115.76	--
1974-75	1,180.00	800.00	809.25	--	144.45	--
1975-76	1,342.00	800.00	1,172.97	560.00	157.80	40.00
Total	\$6,160.00	\$3,350.00	\$4,850.87	\$947.30	\$615.09	\$40.00
Average	\$1,232.00	\$ 670.00	\$ 970.17	*	\$121.02	*

Year	Total Income	Expenditures
1971-72	1,785.79	4,300.63
1972-73	3,542.99	1,343.06
1973-74	3,512.25	3,934.05
1974-75	2,933.70	2,145.81
1975-76	4,072.77	3,521.96
Total	\$15,847.50	\$15,245.51
Mean	\$ 3,169.50	\$ 3,049.10

Editor:

Dr. James Wickliff, Editor, noted that copies of the 29th *Proceedings* were available at the registration desk. He said that editorial and publication costs had increased and stated a motion would be made at the second business meeting to increase the monies for an editorial assistant.

Dr. Wickliff then opened a discussion of proposed changes in the Editorial Board of the *Proceedings*. He noted that the Executive Committee had approved the proposal. After some discussion, Dr. Wickliff asked for recommendations and volunteers for the Associate Editor positions. The following changes were approved by the Executive Committee.

The Editorial Board as a functioning committee within the Academy structure will be abolished and present Editorial Board members will be relieved of further obligation in this capacity. (The present Editorial Board has been serving primarily in a policy resolving capacity.)

Proposed reorganization is as follows.

Associate Editors of the Academy will be appointed by the Executive Committee as recommended by the Editor. These Associate Editors will represent areas of scholarly interest by the Academy including the following disciplinary sections:

Agriculture and Forestry	Environmental Science
Anthropology and Sociology	Geology
Biological Science	Mathematics
Chemistry	Physics
Engineering Sciences	Science Education

Duties of the Associate Editors will be:

1. to arrange for persons to chair the paper presentation sessions in their respective disciplines at the annual meetings of the Academy;
2. to assist the Program Committee in organizing these paper sessions;
3. to assist the Editor in obtaining scholarly reviews of papers submitted for publication in the *Proceedings of the Arkansas Academy of Science*.

Associate Editors would serve a 3-year term.

Historian:

Dr. Dwight Moore, Historian, gave a detailed history of the Academy (included in this issue). Dr. Guenter gave Dr. Moore a Certificate of Appreciation for his long and devoted service to the Academy.

State Science Fair:

Professor Robert Saunders reported that the exhibits were ready and encouraged people to see them. Dr. Guenter noted that Professor Saunders was retiring and stated that the Academy greatly appreciated his years of service to the State Science Fair. Dr. Guenter also noted that an interested and dedicated replacement for Professor Saunders would need to be found.

Junior Academy of Science:

Professor Marie King reported that 25 papers were being given. She stated that the presentations would be interesting and invited everyone to attend the Junior Academy paper presentations. Professor King thanked all the people who had assisted her during the past year.

Collegiate Academy of Science:

Dr. John Bridgman stated that the Collegiate Academy papers would be presented this year in the Senior Academy sessions. He thanked the Academy for its support this year.

Junior Science and Humanities Symposium:

Dr. E.B. Wittlake, Director, gave the following report.

The Tenth Arkansas JSHS was conducted by the Planning Board and associate instructors at Little Rock, November 6-8, 1975, with a total of 48 teachers, 69 students, and a staff of 20. Headquarters and lecture facilities were as before. There were five guests of whom Lt. Col. Edward Downing, Executive Officer, U.S. Army Research, Durham, was most helpful; he observed and evaluated procedures as the Symposium went along. The President of the Academy brought greetings and attended part of the sessions. As the Director had asked for replacement in the future, Mr. Tom Palko, Biology Department, Arkansas Polytechnic College, was chosen by the Executive Committee at the 1975 Academy Meeting to be the next Director. Mr. Palko devoted his time to observing and evaluating the existing Symposium structure for his own future performance.

Arkansas Academy of Science

Financial support continues to be a problem. The Symposium needs a greater number of Arkansas donors from business and industry to create a broader base of contribution. The Pine Bluff Arsenal through Col. E.E. Hayes has given new backing to the total grant received from the JSHS office—\$8,000 this year or \$500 more than any year in the past. Dr. Morris L. Cramer of the National Center of Toxicology continues to support us, as has the Weyerhaeuser Company through the continued interest of Mr. Tom Worth, Wood Products Manager, Mt. Pine. Mr. Tom Jenkins, long a Symposium supporter and now a Board member, has secured a promise of \$100 from the Ozark Canners and Freezers Association. The Agricultural Council of Arkansas as influenced by Dr. J.R. Phillips of Fayetteville has continued its support. New donors were four associated banks of Jonesboro.

Problems of hotel management and its effect on students were noticeable. The continued use of a solid, unbroken session for student research papers proved effective. The major lectures were well taken; in at least two, those of Dr. Ann Whetstone and Dr. John Douglas, the emphasis on research method was excellent. Dr. R.R. Cohoon gave a comprehensive view of Arkansas physical geology and Dr. George Harp gave a presentation of the limnology of the bauxite lakes at Bauxite. The news media picked up the latter topic for publicity. Publicity as a whole was still not comprehensive though several sources of the media made promises, even to the point of photography of the winning students. These were:

- (1) Clifford Whitmore II, Harrison High School; (2) Eugene Boyles, Augusta High School; (3) Glenda Garner, Arkansas Senior High School, Texarkana; (4) Melody Smith, Jasper High School; (5) Karen Baker, Lake City High School, and (6) Mike Tribble, Fayetteville High School.

The Board member chosen to attend the National Symposium was Mr. Charles Price of West Memphis High School who has been active in science teacher affairs of Northeast Arkansas. Mr. Palko as incoming Director will accompany the Director at JSHS expense.

The tours were carried out very well and within the time limits. The Career Emphasis Session was weakened by the loss of Dr. J.O. Cooper, Professor of Medicine, University of Arkansas, who died in midsummer. The other four areas were well covered by their leaders.

The Director wishes to thank members of the Academy for its support of his endeavors and the Planning Board who again faithfully carried on their tasks. New Board Members in addition to Mr. Palko were: Mr. Tom Jenkins, Fayetteville; Mr. Robert Allen, Marianna; and Mr. Lloyd Martin, Trumann.

Dr. Wittlake noted that Lt. Col. Downing had written a letter praising this year's effort. Dr. Guenter followed by thanking Dr. Wittlake for his valuable contributions to the Symposium during his tenure as Director.

Science and Technology Council:

Dr. Maurice Lawson stated that no funds in support of the Council were available at present.

Newsletter:

Dr. Henry Robison, Editor, stated that he needed a representative from each school to collect information for the *Newsletter*. He noted that it has been difficult to gather news to date.

Unfinished Business:

Dr. Evans reported that two high school student research grants had been awarded. Last year, \$40.00 was awarded to Susan Keeler of Paragould. This year, \$117.00 was awarded to Eugene Boyles of Augusta High School to study wood ducks. Dr. Evans noted that each year AAAS supports this program by contributing up to \$100.00. He also said that students wishing grants should contact the Academy President who will appoint a committee to evaluate the grant proposal and make grant awards.

Dr. Guenter read a letter from Dr. Francis Clayton, which stated that a new representative to AAAS (Section X) meetings would be needed. Dr. Guenter asked for a volunteer, and said if one could be found, he or she could be appointed as the Academy Representative.

Dr. Guenter announced that the Arkansas Science Teachers' Association invited all to attend a breakfast April 10.

New Business:

Dr. Guenter appointed the following committees:

Auditing:	Henry Robison (Chairman), Ken Beadles, Gary Tucker.
Meeting Place:	Ed Dale (Chairman), Tom Palko, Tom Clark, Ed Bacon, Jim Nichols.
Resolutions:	Don England (Chairman), Art Johnson, John Bridgman.
Membership:	Neal Buffalo (Chairman), Ed Dale, Les Howick, Joanne Rife, Leon Richards, Gary Heidt, John Gilmour.
Research:	Tim Ku (Chairman), Howard Hodges, Carl Rutledge.

Dr. Guenter asked for any additional new business. No new business was introduced, and Dr. Guenter adjourned the meeting at 12:15 p.m.

SECOND BUSINESS MEETING

President Guenter called the second business meeting of the Arkansas Academy of Science to order April 10, 1976.

Dr. Guenter asked for a report from the Junior Academy. Professor King announced the winners for this year's competition.

Dr. Guenter asked for a report from the Collegiate Academy. Patricia Kirky of the Collegiate Academy announced that awards for physical science papers were given to Laura Ballard (1st) and Steven Latowsky (2nd) and awards for biological science papers were given to Ronald Rosen (1st), Gary Graves (2nd), and Julia Taylor (3rd). Dr. Edward Wilson led a discussion of the relationship between the Collegiate and Senior Academies. A member of the Collegiate Academy pointed out that they wished to take a more active part in their portion of the Meeting program so that they could maintain their identity. Dr. Jewel Moore stated that a faculty representative of the Collegiate Academy was a member of the Executive Committee. Dr. Gilmour added that the President of the Collegiate Academy was a nonvoting member of the Executive Committee. When the discussion concluded, Dr. Wilson stated that the Collegiate Academy had asked Dr. Guenter to be a cosponsor. Last, Dr. Wilson moved that the Senior Academy provide \$175.00 for the Collegiate Academy. The motion was seconded and passed.

Dr. Guenter recognized Professor Saunders for a report on the Science Fair. He stated the Science Fair was a success. Professor Saunders noted that the four Science Fair regions have pledged \$100.00 to provide electrical equipment for future Science Fairs. He announced that this year's representative to the International Science and Engineering Fair would be Glenda Garner, Arkansas High School, Texarkana, and made the following motion.

Secretary's Report

I move that \$100.00 be appropriated to be applied toward the expense of sending a student and his/her sponsoring teacher to the International Science and Engineering Fair at Denver, Colorado.

The motion was seconded and passed. Dr. Guenter again noted that the Science Fair Board would be looking for a replacement for Professor Saunders and encouraged the Academy to assist.

Dr. Guenter recognized Dr. Paulissen to discuss the Science Talent Search. He announced that the state had two winners and one honorable mention this year.

Dr. Guenter then asked Dr. Paulissen to report on the biota project. Dr. Paulissen stated that eight checklists had been prepared. He encouraged the Academy members to develop more checklists and said that he hoped checklists could be displayed at the next meeting.

Dr. Guenter recognized Dr. Robison. Dr. Robison again asked for volunteers to be institutional representatives for the Academy *Newsletter*. Dr. Robison made the motion:

I move that up to \$100.00 be set aside for the *Newsletter*.

The motion was seconded and passed.

Dr. Guenter then recognized the Secretary. Dr. Gilmour asked if there were any additions or corrections to the minutes of the 59th Annual Meeting published in Volume 29 of the *Proceedings*. Dr. Guenter noted that Robert Bustin should be changed to Roberta Bustin. Dr. Gilmour, noting the correction, made the following motion.

I move that the minutes of the 59th Annual Meeting contained in 29th *Proceedings of the Arkansas Academy of Science* be approved as written.

The motion was seconded and passed.

Dr. Guenter recognized Dr. Heidt. Dr. Heidt thanked everyone for attending on behalf of the University of Arkansas at Little Rock Faculty.

Dr. Guenter recognized the Editor of the *Proceedings*. Dr. Wickliff made the motion:

I move that the Academy allocate \$400.00 for editorial assistance to include preparing the manuscript of the 1976 *Proceedings* for publication and for routine mailing of the issues to abstracting agencies and the like.

The motion was seconded and much discussion as to the readership of the *Proceedings* followed. A majority of the members expressed feelings that the *Proceedings* was a very valuable part of the Academy and that the readership was extensive. The motion was passed. Dr. Wickliff provided an update on the reconstitution of the Editorial Board as Associate Editors. Science Education was added to the list of disciplinary sections which would have an Associate Editor.

Dr. Guenter recognized the Treasurer. Dr. Evans made the following motion.

I move the acceptance and approval of the Treasurer's financial statement for the period, April 1, 1975, through March 31, 1976, as submitted at the first business meeting and verified by the Auditing Committee.

The motion was seconded. Dr. Evans asked Dr. Robison to give the following report.

We the undersigned Auditing Committee have examined the financial statement of the Arkansas Academy of Science for the period April 1, 1975, through March 31, 1976, and find it complete and correct. Dr. William L. Evans, Treasurer, is to be highly commended for the excellent job in this capacity.

The motion was passed.

Dr. Guenter recognized Dr. E.E. Dale for a report from the Meeting Place Committee. Dr. Dale stated that the Academy had been invited to meet at Arkansas Polytechnic College at Russellville in 1977. It was moved to accept the invitation. The motion was seconded and passed.

Dr. Guenter gave the report of the Meeting Time Committee. He reported no change would be made for the present because suggested changes had generated conflicts.

Dr. Guenter asked for a report from the Resolutions Committee. Dr. England moved that the following resolutions be adopted.

Be it resolved, that the Arkansas Academy of Science express its appreciation to the Administration and Faculty of our host institution, The University of Arkansas at Little Rock, for the use of their excellent facilities and for their warm hospitality.

The Academy also expresses its appreciation to the following people for their part in making the 1976 meeting a success: the Arrangements Committee at The University of Arkansas at Little Rock, Gary A. Heidt, Chairman, John Rickett, Philip Kehler, Richard Hanson, Richard Prior, Leland Morgans, and Mel Fuller; the Chairmen of the Sections of the Academy, Charles Harbison, Philip Kehler, Hugh Johnson, Edmond Bacon, F.L. Setliff, Edward Bennett, William R. Bowen, George Harp, and Timothy C. Klinger; to Marie King, Director of the Junior Academy of Science; Ed Wilson and John Bridgman, Co-Sponsors of the Collegiate Academy of Science; E.B. Wittlake, Director of the Junior Science and Humanities Symposium; Phillip Easley, Director of the State Science Fair; and Robert O. Saunders, President of the Arkansas Science Fair Association.

The Academy also wishes to express its thanks to Joe Guenter, President of the Academy; John Gilmour, Secretary; William L. Evans, Treasurer; James Wickliff, Editor; and Dwight M. Moore, Historian, for the excellent manner in which they have discharged their duties during the year.

We also wish to commend the following companies and their representatives for their excellent displays: American Optical, Scientific Products, Preiser Scientific, The Gene Swepston Company, Southern Biological, Sargent-Welch, and Corning Glass.

We express our sincere appreciation to Paul Engle for his excellent planetarium presentation.

The motion was seconded and passed.

Dr. Guenter asked for a report from the Nominating Committee. Dr. Alex Nisbit placed Dr. Joe Nix in nomination for President-Elect. Dr. Guenter asked for nominations from the floor. There being no additional nominations, Dr. Guenter asked for a second. The nomination was seconded and accepted.

Dr. Guenter asked if there was any unfinished business. Dr. Evans presented the following motion.

I move that the Academy establish a research grant fund of \$400.00 for the purpose of making grants not to exceed \$100.00 to Arkansas Academy of Science members and that the interest from the reserve funds be added each year. This motion includes the establishment of a Research Committee appointed by the President to recommend to the Executive Committee award of the grants to be made at the annual meeting.

The motion was seconded. During the discussion, Dr. Evans stated that funds to support the research grant fund were available. Dr. Lester Howick suggested that institutions might wish to match these research grants. The motion passed.

Dr. Guenter recognized Mrs. Margery Wills. She asked that the Executive Committee study the possibility of separating the Science Fair and the Academy Meetings. Mrs. Wills pointed out that the major reason for her suggestion was that it was difficult for high

Arkansas Academy of Science

school teachers and students to participate in both organizations. Professor King agreed. Dr. Carl Rutledge stated that such a separation would cause some problems with respect to availability of judges and participation in both programs because of travel difficulties. Dr. Guenter encouraged the membership to contact members of the Executive Committee so that a decision could be made.

Dr. Guenter recognized Mr. Tom Palko. Mr. Palko asked if the Academy was in favor of having a banquet next year. After much discussion two informal votes were taken. The members present were evenly divided with respect to having or not having a banquet and with respect to having a speaker if a banquet were held.

Dr. Guenter then thanked the committees, the University of

Arkansas at Little Rock Faculty, the Past President, and continuing officers for making his tenure as President enjoyable. He introduced the President-Elect, Dr. Jewel Moore, and passed the gavel to her. President Moore appointed the Nominating Committee of Dr. Robert Watson (Chairman), Dr. Clark McCarty, and Dr. Arthur Coffee.

Dr. Moore adjourned the second business meeting.

Respectfully submitted,

John T. Gilmour, Secretary