

# ARKANSAS ACADEMY OF SCIENCE

Volume XXIX

1975

## Proceedings

Edward E. Dale  
President

Joe M. Guenter  
President-Elect

John Gilmour  
Secretary

William L. Evans  
Treasurer

Dwight M. Moore  
Historian

## Secretary's Report

### MINUTES OF THE FIFTY-NINTH ANNUAL MEETING - 11-12 APRIL 1975

#### FIRST BUSINESS MEETING

The first business meeting of the 59th Annual Meeting of the Arkansas Academy of Science was called to order by Dr. E.E. Dale, President of the Academy. Dr. Dale introduced Dr. Henry Robison, Chairman of the Local Arrangements Committee. Dr. Robison introduced Dr. Imon Bruce, President of Southern State College, for the formal welcome.

President Dale then called for reports from representatives of organizations sponsored by the Academy and from Officers of the Academy.

#### Secretary:

The Secretary, Dr. J.T. Gilmour, reported that the minutes of the 58th Meeting were being distributed as a part of the 28th Proceedings. Dr. Gilmour noted that a motion to approve the minutes would be made at the second business meeting.

The Secretary discussed 1974 membership which totaled 179. There were 141 regular, 20 sustaining and 18 associate members.

#### Treasurer:

Dr. W.L. Evans, Treasurer, distributed the financial statement and summary for the Academy during 1974. Dr. Evans noted that a motion to approve the financial statement would be made at the second business meeting.

#### Financial Statement

March 31, 1975

Cash Balance in Checking Account, April 1, 1974	\$1,807.64
Reserve Funds, Savings Certificate, FSLA, April 1, 1974	1,238.92
Reserve Funds, Passbook Savings Acct., FSLA, April 1, 1974	276.82
Total Funds, April 1, 1974	\$3,323.38

Income (April 1, 1974 through March 31, 1975)

1. Memberships	
a. Sustaining	160.00
b. Regular	954.00
c. Associate	136.00
2. Institutional Dues	830.00
3. Subscriptions to PROCEEDINGS	685.00
4. Page Charges for the PROCEEDINGS	124.25
5. Interest on Reserve Funds	
a. Certificate 13-080 (3.75%)	62.89
b. Certificate 71-950 (6.5%)	34.67
c. Passbook Acct. OP 7679 (5.25%)	72.89
Total Income	\$2,937.60

#### Disbursements

1. Danny Thomas Berry, Science Talent Winner	\$ 20.00
2. Mary Jane Post, Science Talent Winner	15.00
3. Carolyn Lou Miller, Science Talent Winner	10.00
4. Phillips Litho, Inc., Vol. 27, PROCEEDINGS	1,423.15
5. Internal Revenue Service, Income Tax WH	2.30
6. Dept. of Finance & Administration, Tax WH	1.10
7. University of Arkansas, Receipt Book	1.81
8. University of Arkansas, Copy Work	7.90
9. Postmaster, Fayetteville, Stamps	35.00
10. Postmaster, Box Rent	.75
11. University of Arkansas, Receipt Book	2.22
12. University of Arkansas, Copy Work	1.20
13. Emily P. Tompkins, Editorial Assistant	118.30
14. Internal Revenue Service, Tax WH	12.30
15. Dept. of Finance & Administration, Tax WH	1.40
16. Association of Academies of Science, 1975 Dues	10.00
17. Arkansas Science Fair Assn., Auth. Support	100.00
18. Arkansas Collegiate Academy of Science, Auth. Support	175.00
19. Emily P. Tompkins, Editorial Assistant	82.90

#### Disbursements

20. Dr. J. L. Wickliff, Stationery & Supplies	31.96
21. Emily P. Tompkins, Editorial Assistant	32.10
22. University of Arkansas, Copy Work	21.50
23. University of Arkansas, Receipt Book	2.22
24. Dr. Henry W. Robison, Postage, 1st Mailing	19.00
25. Dr. Henry W. Robison, Postage, 2nd Mailing	18.70
Total Disbursements	\$2,125.81

#### Summary

Beginning Balance, Checking & Reserve, April 1, 1974	\$3,623.20
Total Income	+2,937.60
Less Expenditures	-2,125.81
Total Funds, March 31, 1975	\$4,434.99

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Balance in Checking Acct., Mellon Bank	\$1,451.08
FSLA Savings Certificate 71-950 (6.5%)	1,008.67
FSLA Passbook Acct. OP 7679 (5.25%)	1,975.24
Total Funds, March 31, 1975	\$4,434.99

Respectfully submitted,

William L. Evans  
Treasurer

April 11, 1975

#### Editor:

Dr. James Wickliff, Editor, noted that the tables and figures submitted were much improved, but that the text of many manuscripts needed revision. He appealed to Academy members to proofread manuscripts before submission to ease editorial problems.

Dr. Wickliff commended Mrs. Emily Tompkins for her efforts as copy editor.

Dr. Wickliff noted that he would move for more editorial assistance monies and for the establishment of a cumulative index during the second business meeting.

*Historian:*

Dr. Dwight Moore, Historian, stated that this was the 60th meeting of the Academy and the first held at Southern State College. Dr. Moore then discussed some of the history of the Academy.

*State Science Fair:*

Professor Robert Saunders reported on the State Science Fair. Professor Saunders noted that monetary contributions for the Science Fair were lower than before, but that student enthusiasm appeared to be high. This year, 88 exhibits or 22 from 4 regions were entered.

*Junior Academy of Science:*

President Dale asked for the report from the Junior Academy of Science. He noted it would be given at the second business meeting.

*Collegiate Academy of Science:*

President Dale asked for the report from the Collegiate Academy of Science. He noted it would be given at the second business meeting.

*Junior Science and Humanities Symposium:*

Dr. E.B. Wittlake, Director, reported that 93 students and 53 teachers attended the 9th Symposium held November 7-9, 1974, at the Grady Manning Hotel and the Arkansas Power and Light Auditorium in Little Rock. The winners selected were: Mark Kinion, Prairie Grove; John Stewart, Texarkana; Bob Barnes, Arkansas School for the Blind, Little Rock; Jenny Johnston and H. Allen McPherson, Fayetteville; and Helen Oylar, Mountain View. They will be accompanied by Mrs. Sid Purtle to the National Symposium. Dr. Wittlake thanked those who have contributed their time, facilities and finances. He also indicated that he will supervise next year's activities, but would like to be replaced before the 11th Symposium.

*Unfinished Business:*

President Dale noted that there were no reports from the Constitutional Revision Committee or the Nominating Committee. Dr. Evans reported that the Committee to Screen Junior Academy of Science Research Projects had approved 1 project for \$40.

*New Business:*

President Dale nominated the following committees: Auditing (Dr. Gary Tucker, Dr. George Harp); Resolutions (Dr. Bill Guest, Chairman, Dr. Clark McCarty, Dr. Arthur

Johnson); Meeting Place (Dr. Ron Beadles, Chairman, Professor Robert Saunders, Dr. Clarence Sinclair, Dr. W.L. Evans, Dr. Henry Robison, Dr. Terry Webb, Dr. John Bridgman); Research Proposal Screening Committee (Dr. George Templeton, Chairman, Dr. Earl Hannebrink, Dr. W.L. Evans); Membership (Dr. Neal Buffaloe, Dr. Les Howick, Dr. E.E. Dale, Dr. J.T. Gilmour, Dr. Leon Richards).

Dr. Henry Robison stated that he would be making a motion for reactivation of the Academy Newsletter during the second business meeting.

There being no further business, President Dale adjourned the first business meeting.

*SECOND BUSINESS MEETING*

President Dale called the second business meeting of the Arkansas Academy of Science to order 12 April 1975.

President Dale recognized Dr. Maurice Lawson, who discussed the Science and Technology Council. He indicated that the Governor had declined to approve funds for the Council operation. Thus, the financial viability of the Council appeared to be in doubt until funds might be made available.

President Dale recognized Dr. W.L. Evans, who presented the following motion:

I move that a copy of the PROCEEDINGS be supplied to the administrator who authorizes institutional membership. This is to be construed as providing one copy in addition to the copy currently being sent to the library of each institutional member.

The motion was seconded and approved.

President Dale recognized Dr. Leo Paulissen, who presented the following motion:

I move that the Arkansas Academy of Science sponsor a survey of Arkansas biota and that a committee or board of 5 members serve as a board of governors to undertake the operation of the survey and report progress at our next meeting.

The motion was seconded. During the discussion, Dr. Paulissen amended the motion to include Drs. Gary Heidt, Art Johnson, Leo Paulissen, Henry Robison and Gary Tucker as the board of governors for the first year. He stated that they would report progress to the Academy next year. The motion as amended carried.

President Dale asked Dr. Paulissen to report on the Science Talent Search. He stated that Arkansas winners had placed nationally which is a tribute to the participants within Arkansas.

President Dale recognized Professor R.O. Saunders to discuss the State Science Fair. Professor Saunders said that the program was a success again this year because of the efforts of the students and their advisors. He announced the winners (Kevin Williams, Green County Tech.; Donnie Keller, Weiner High School) and noted that because of lack of contributions to the Science Fair Program, additional monies were needed to send the second student to the International Science and Engineering Fair. Professor Saunders then presented the formal motion:

I move that the Academy appropriate \$100 to help

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defray the expenses of a second student, Donnie Keller of Weiner High School, to the International Science and Engineering Fair at Oklahoma City, Oklahoma.

The motion was seconded and passed.

President Dale recognized Dr. Maxine Manley, Director of the Junior Academy of Science. Dr. Manley reported that the papers were excellent this year. Dr. Manley then moved that Professor Marie King become the new Director of the Junior Academy. The motion was seconded and passed.

President Dale recognized Dr. John Bridgman of the Arkansas Collegiate Academy of Science. Dr. Bridgman announced the winners and noted the high quality of papers presented this year. Dr. Bridgman moved that Dr. Wilson of Harding College become a co-sponsor of the Collegiate Academy next year and become the sponsor of the Collegiate Academy the following year. The motion was seconded and passed. Dr. Bridgman also moved that \$175 be appropriated from the Arkansas Academy of Science for the Collegiate Academy. The motion was seconded and passed.

President Dale recognized Dr. Maxine Manley, who moved that the Arkansas Academy of Science appropriate \$200 for business purposes of the Junior Academy. The motion was seconded and passed.

President Dale recognized Dr. J.T. Gilmour, Secretary, who thanked the institutional members for their participation in the Arkansas Academy of Science. Dr. Gilmour then presented the motion:

I move that the minutes of the 58th Annual Meeting contained in the 28th Proceedings of the Arkansas Academy of Science be approved as written.

The motion was seconded. During the discussion, it was noted by Dr. Clark McCarty that the officers listed in the 28th Proceedings needed correction. The motion passed.

President Dale recognized Dr. James Wickliff, Editor of the PROCEEDINGS. Dr. Wickliff presented the following motion:

I move that the Academy allocate \$300 for editorial assistance expenses for preparation of the 1975 issue of the PROCEEDINGS (Vol. 29).

The motion was seconded and passed. President Dale recognized Dr. Spaeirs, who moved that the Academy commend Dr. Wickliff for a job well done. The motion was seconded and passed.

President Dale recognized Dr. W.L. Evans, Treasurer. Dr. Evans presented the following motion:

I move the acceptance and approval of the Treasurer's financial statement for the period of April 1, 1974, through March 31, 1975, as submitted at the first business meeting and verified by the Auditing Committee.

Dr. G.L. Harp of the Auditing Committee presented the following statement:

The Auditing Committee has examined the financial statement of the Arkansas Academy of Science for the

period 1 April 1974 through 31 March 1975. Said statement is hereby verified. Dr. William L. Evans, Treasurer, is to be commended for his efforts in this capacity.

The motion by Dr. Evans was then seconded and passed.

President Dale recognized Dr. John Beadles, Chairman of the Meeting Place Committee. Dr. Beadles reviewed recent meeting places and proposed meeting sites. Dr. Beadles noted that a central location was favored by the Meeting Place Committee for next year, and so moved that Little Rock be the location for the 60th Annual Meeting of the Arkansas Academy of Science. The motion was seconded. During discussion, Dr. Beadles stated the UALR would be the sponsor. The motion carried. President Dale then led a discussion of meeting dates. After much discussion, Dr. Spaeirs moved that a committee be formed composed of the Immediate Past President, President and President-Elect to recommend a meeting date. The motion was seconded and passed. President Dale pointed out that a recommendation would be made at the next Annual Meeting of the Academy.

President Dale noted again that a membership committee had been formed. He stated that he would convene the committee and that the committee would make a recommendation to the Executive Committee by October 15, 1975. Dr. Manley suggested that more high school teachers might register if the Junior Academy registered in the same area as the Senior Academy. Mrs. Wills, a high school teacher, pointed out that high school teachers would support the Academy.

President Dale recognized Dr. Lawson of the Nominating Committee. Dr. Lawson nominated Dr. Jewel Moore for President-Elect. Dr. Jack Sears moved that the nominations cease, and that Dr. Moore be elected by acclamation. The motion was seconded and passed. Dr. Dwight Moore, Historian, noted that Dr. Moore would be the third woman President of the Academy.

President Dale recognized Dr. W.C. Guest, Chairman of the Resolutions Committee. Dr. Guest moved that the following resolutions be adopted:

Be it resolved, that the Arkansas Academy of Science express its sincere appreciation to the Administration and Faculty of our host institution, Southern State College, 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 1975 meeting a success: The Arrangements Committee at Southern State College, Dr. Henry Robison, Chairman, Dan England, Marie King and Hugh Johnson; the Chairmen of the Sections of the Academy; Dr. Maxine Hite Manley, Director of the Junior Academy of Science; Dr. Michael Condren and Dr. John Bridgman, Co-Sponsors of the Collegiate Academy of Science; Dr. E.B. Wittlake, Director of the Junior Science and Humanities Symposium; Mr. Phillip Easley, Director of the State Science Fair; and Professor Robert O. Saunders, President of the Arkansas Science Fair Association.

The Academy also wishes to express its thanks to Dr. Edward E. Dale, President of the Academy; Dr. John Gilmour, Secretary; Dr. William L. Evans, Treasurer; Dr. James Wickliff, Editor; and Dwight

## Secretary's Report

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M. Moore, Historian, for the excellent manner in which they have discharged their duties during the year.

The motion was seconded and passed.

President Dale asked for other business. Dr. Henry Robison was recognized. Dr. Robison moved to reactivate the Arkansas Academy of Science Newsletter and to set aside \$100 for its publication and distribution. The motion was seconded. During discussion, President Dale noted that Dr. Robison would coordinate the Newsletter. The motion carried.

President Dale relayed his appreciation as President to all

those who contributed to the Academy program during his term of office. He introduced the President-Elect, Dr. Joe Guenter, and passed the gavel to him. President Guenter appointed the Nominating Committee of Dr. Bob Kirkwood, Chairman, Dr. Robert Bustin and Dr. Alex Nisbit to report at the next Annual Meeting of the Academy.

President Guenter adjourned the second business meeting.

Respectfully submitted,

John T. Gilmour, Secretary