

1983

67th Annual Meeting, 1983. Secretary's Report and Financial Statement

Academy Editors

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ARKANSAS ACADEMY OF SCIENCE

Volume XXXVII

1983

Proceedings

Robbin C. Anderson
President

Paul Sharrah
President-Elect

William L. Evans
Vice-President

David M. Chittenden
Secretary

Arthur Johnson
Treasurer

Robert T. Kirkwood
Historian

Secretary's Report

MINUTES OF THE SIXTY-SEVENTH ANNUAL MEETING — 1-2 APRIL 1983

FIRST BUSINESS MEETING

Dr. Robbin Anderson, President, opened the meeting and recognized Dr. David Chittenden who presented the minutes of the 66th annual meeting as printed in the *Proceedings*.

President Anderson recognized Dr. Robert Wright, chairman of the Department of Biology at the University of Central Arkansas and local arrangements chairman, who welcomed the Academy and made announcements.

Dr. Anderson recognized Dr. Arthur Johnson, Treasurer, who presented the following Treasurer's Report.

FINANCIAL STATEMENT

March 10, 1983

Statement Approved by Audit April 3, 1982
McIlroy Bank Checking Account Balance, 03-24-82 \$ 2,266.59
Heritage Savings and Loan, Passbook Account 1,159.18
Heritage Savings and Loan, Certificates of Deposit 1,222.20

Total Funds, March 24, 1982 \$ 4,647.97

INCOME: March 24, 1982 to March 10, 1983

1. Meeting, BSU, April 2-3, 1982		
a. Dues (10 Sust., 85 Reg.)	\$ 970.00	
b. Registration	376.00	
c. Banquet	455.00	
d. Proceedings	20.00	
e. Institutional Dues	50.00	
Total Meeting Income	\$1,871.00	1,871.00
2. Individual Memberships		
a. Sustaining (30)	\$ 360.00	
b. Regular (86)	860.00	
c. Associate (1)	5.00	
Total Dues (excl. 1a. above)	\$1,225.00	1,225.00
3. Institutional Dues (excl. 1 e.)		450.00
4. PROCEEDINGS, Subscriptions		1,236.94
5. Page Charges		1,215.00
6. BIOTA Receipts		41.80
7. Interest		
a. Checking Account	\$ 28.16	
b. Certificates of Deposit	179.76	
c. Savings Account	58.47	
Total Interest	\$ 266.39	266.39
8. Collegiate Academy of Science		53.86
Total Income	\$ 6,359.99	

EXPENSES: March 24, 1982 to March 10, 1983

1. PROCEEDINGS, Publication and Distribution		
a. G. Heidt, Travel (588)	80.00	
b. Phillips Litho Co., Pymnt (103)	2,000.00	
c. Jones Truck Lines, Mailing (104)	25.00	
d. ASU, Editor Letter (105)	40.00	
e. Phillips Litho Co., Pymnt 2 (108)	900.00	
f. Phillips Litho Co., Pymnt 3 (110)	794.68	
g. Mary Ann McDaniel, Edit. Asst. (113)	248.56	
h. V. Rick McDaniel, Edit. Travel (114)	117.53	
i. Mary Ann McDaniel, Edit. Asst. (122)	102.45	
j. V. Rick McDaniel, Edit. Travel (125)	117.53	
k. IRS (102)	71.39	
l. IRS (120)	114.49	
n. Ark. Dept. Fin. & Admin. (121)	8.15	
Total for PROCEEDINGS	\$ 4,620.99	\$ 4,620.99
2. Meeting Expenses		
a. Diversified Data (583)	7.54	
b. Kinko Copies (584)	22.88	
c. Henderson State University (589)	853.16	
Total for Meeting Expense	\$ 883.58	\$ 883.58
3. Awards		
a. Wendy Koppel, Sci. T. (586)	35.00	
b. Brian Espenshied, Sci. T. (587)	30.00	
c. Ark. Sci. Fair Assn. (118)	100.00	
d. Ark. Jr. Acad. Sci. (119)	200.00	
Total for Awards	\$ 365.00	\$ 365.00
4. Operating Costs		
a. UAF Bookstore, Rpt. Bk. (585)	7.23	
b. Nat'l Assn. Acad. Sci. (590)	25.00	
c. McIlroy Bank, Cashiers Ck. (591)	2.00	
d. First State Bank and Trst. Co. ()	4.94	
Service Charge		
e. David Chittenden, Scys Exp. (106)	111.05	
f. Instaprint, Treas. Envelopes (107)	36.40	
g. Frat. St. Bk. & Trst. Co., Chks ()	13.70	
h. Hendrix College Bookstore, Stamps (111)	20.00	
i. David Chittenden, Scys Exp. (112)	53.54	
k. Copy Cat, Newsletter (113)	134.47	
l. Copy Cat, Newsletter (116)	63.60	
m. UALR Biol. Dept., Postage (117)	55.26	
n. Copy Cat, Newsletter (123)	130.31	
o. UALR Biol. Dept., Post., Ker., Stat. (124)	23.66	
p. Hendrix College Bookstore, Stamps (126)	20.00	
q. Paulsson, BIOTA (129)	57.55	
Total Operating Costs	\$ 778.71	\$ 778.71
Total Expenses		\$ 6,648.28

Summary

(March 24, 1982 to March 10, 1983)

Balance Approved by Audit on April 3, 1982		\$ 4,647.97
Total Income (See Page 1)	\$ 6,359.99	
Total Expenses (See Page 2)	6,648.28	
Balance for the Year	- 288.29	- 288.29
Funds on Hand March 10, 1983		\$ 4,359.68

Secretary's Report

Distribution of Accounts

(March 10, 1983)

TOTAL Account, First State Bank and Trust Company of Conway, Arkansas	\$ 1,760.07
Savings Account, First State Bank and Trust Company of Conway, Arkansas	1,022.45
Certificates of Deposit, First State Bank and Trust Company of Conway, Arkansas	1,597.16
<hr/>	
Total Funds, March 10, 1983	\$ 4,359.68

Respectfully Submitted,

Arthur A. Johnson
Arthur A. Johnson, Treasurer

Meeting: April 1-2, 1983
University of Central Arkansas
Conway, Arkansas 72032

Dr. Anderson appointed the following committees:

Audit Committee: Paul Sharrah, chair; Daniel R. England;
Walter Godwin

Resolutions Committee: P. M. Johnston, chair

Meeting place Committee: not necessary since it had been previously approved that the University of Arkansas-Fayetteville will host the 1984 Academy meeting on 6-7 April. Dr. William Evans will chair the committee to choose the site for the 1985 meeting.

Dr. Tom Goodwin, chairman of the Nominating Committee presented the following candidates for office:

For Vice-President: Dr. Gary Heidt, UALR

For Historian: Dr. Henry Robison, SAU

It was moved and seconded that nominations cease. The motion passed.

Dr. Heidt presented the report of the Committee on the Collegiate Academy as follows:

The Ad Hoc Committee recommends that the Arkansas Academy of Science adopt the following procedure and awards for outstanding undergraduate research:

1. We recommend that the undergraduate papers continue to be mixed with the senior papers and carry an indication that they are presented by undergraduates and in competition for the student awards.
2. That the abstracts be submitted to and scheduled by the local committee at each meeting. However, the chairman of the local committee needs to check with the chairman of the committee to make sure that the papers are scheduled in such a way that they can be easily judged.
3. That the abstract form for submitted papers include a clearly indicated space as to whether the research was conducted and will be presented by an undergraduate student.
4. That two awards be presented. One award each for the outstanding paper in Life Science and the outstanding paper for Math & Physical Science.
5. That the awards should consist of a one year membership and subscription to *Science* (the Academy already has two such memberships to be given to students each year) and an

appropriate certificate of merit. In addition, the President of the Academy should send a letter of commendation to the student's professor with a carbon to the professor's department chairman.

6. That a permanent standing committee on student awards be established by the Academy. This committee's charge will be to coordinate student awards. Tasks will include cooperation with the chairman of the meeting's local committee concerning scheduling of competing papers, provision of at least two judges (ideally three) for each category, formulation of judging criteria, tabulation of the judges' opinions and the presentation of awards and certificates.

After discussion the following motion was made and passed.

Furthermore, since the entire Academy membership will be unable to vote on the proposal before the 1983 annual meeting at UCA, the committee would like to submit the following motion to the Executive Committee:

"The Ad Hoc Committee on Undergraduate Student Awards moves that its recommendations concerning the procedures and award for outstanding undergraduate research efforts be approved by the Executive Committee of the Arkansas Academy of Science. The Executive Committee furthermore authorizes the Ad Hoc Committee to implement these procedures for the 1983 annual meeting of the AAS to be held at UCA. The Executive Committee authorizes the expenditure of funds necessary for the certificates of merit. And that the Executive Committee present a motion for the acceptance of these recommendations at the AAS's 1983 Business Meeting in Conway, Arkansas."

In accordance with that motion the above two committees would like to offer the following motion to the general membership:

It is moved that the general membership of the Arkansas Academy of Science accept the Ad Hoc Committee on Undergraduate Research Awards' recommendations and also accept the motion passed by the Executive Committee on 3 September 1982 concerning those recommendations. The President is thus instructed to implement the proposed recommendations.

The motion was seconded and passed.

Dr. William Evans, Vice-President, presented the report of the Committee on Dues Structure.

The *ad hoc* committee on dues structure appointed by President Robbin Anderson met at UALR on March 14, 1983, to consider the charge "to give our general dues structure some study and to report to the Executive Committee at the April meeting this year recommendations for change if any seem appropriate."

Dr. Arthur Johnson reported that the total funds in the Academy accounts are only slightly less than at this time last year. He also noted that, in general, the funding in the Academy has not changed significantly in the past few years. This excludes meeting costs.

The unanimous consensus of the committee members was that there is a critical need to increase the income for the Academy, particularly in view of rising costs during the past few years. After considerable discussion, the following proposals were agreed upon and are hereby submitted:

1. Expand the number of types of individual memberships with the dues as indicated:

Arkansas Academy of Science

Regular member	\$ 10.00	(no change)
Sustaining member	15.00	(up from \$12.00)
Sponsoring member	25.00	(new)
Life member	200.00	(new)
Undergraduate member	5.00	(no change)

Note: A life membership of \$200 may be made in four payments of \$50.00 each over a four-year period. On this plan, the individual shall be considered as a sponsoring member until the total is paid.

2. Publish a list of members each year in the PROCEEDINGS. Different categories of members should be indicated. It was suggested that such a list could be reduced from standard-size print to the size currently used for the Treasurer's report to save space.
3. In addition, it is suggested to the Executive Committee of the Academy that a continuing effort should be made to obtain financial support from industrial, business, federal and state government sources. A standing committee for this purpose might be in order. One member suggested that the vice president might chair such a committee.

If item 1 of the report is approved by the Executive Committee and no changes in the recommendations are made, the following changes in the constitution and By-Laws will be necessary:

ARTICLE III. MEMBERSHIP

Section 2. There shall be two general classes of membership in the Academy: Members (consisting of Regular, Sustaining, Sponsoring, Life, and Undergraduate Members) and Institutional Members.

BY-LAWS

10. Dues for members (Regular, Sustaining, Sponsoring, Life, and Undergraduate) shall be set by the officers of the Academy and submitted to the membership for approval. Approval by the membership shall be by majority vote of those present. Any change of dues approved by the membership shall be effective January 1 of the year following that in which the change has been approved.

SECOND BUSINESS MEETING

President Anderson recognized David Chittenden, Secretary, who made the following motion.

I move that the Minutes of the 66th Annual Meeting, published in the 36th *Proceedings* of the Arkansas Academy of Science be approved as written.

The motion was seconded and passed.

The Audit Committee presented the following report.

The members of the Audit Committee report that the books balanced and were in order.

It was moved and seconded to accept the Audit Committee's report. The motion passed.

It was moved and seconded to accept the Treasurer's report as presented in the First Business Meeting. The motion passed.

Dr. Evans moved the acceptance of the dues schedule as presented at the First Business Meeting and the acceptance of the changes in the

Constitution and By-laws made necessary by the change in dues schedule. The motion was seconded and passed.

Mrs. Marie Arthur presented the following report on the Junior Academy of Science.

The Arkansas Junior Academy of Science is composed of high school students with the basic objective of stimulating interest in science and research among these students.

Students prepare and present papers on this research at regional meetings with the better presentations being presented at the state meeting which this year will be held at the University of Central Arkansas on April 15. One or two students will be chosen by the Academy to represent Arkansas at the American Junior Academy of Science which will be held in Detroit in May as one section of the American Association for the Advancement of Science meeting.

In addition to individual research, the Academy has involved some forty schools and four hundred students in a cooperative research project to determine if Arkansas has a significant nitrate pollution problem in drinking water from rural wells. The data from this project will be analyzed this summer.

We believe the encouragement to students and teachers, the experience, activities and association with fellow students and adult scientists that result from the activities of the Junior Academy are worthy of continued support by the Arkansas Academy of Science and I move that the Arkansas Academy of Science continue the \$200 support.

The motion was seconded and passed.

Dr. Robert Kirkwood, co-chairman of the State Science Fair, reported that a site is needed for next year's Science Fair. Any volunteers should contact Dr. Kirkwood. Dr. Kirkwood also reported that he was withdrawing as co-chairman and would need a replacement. It was moved and seconded that the Academy continue its \$100 support of the Science Fair. The motion passed.

Dr. Leo Paulissen reported that the quality of papers at this year's Westinghouse Science Talent Search was quite good. The award winners this year were

- 1st place: Rebecca Sue Sample
- 2nd place: Timothy J. Groseclose

There was one honorable mention for the Arkansas delegation at the national meeting.

Tom Palko reported that there was great involvement of students and faculty at this year's Junior Science and Humanities Symposium. Fifteen students from ten high schools were involved in the state meeting. Mr. Palko recommended that the Academy encourage participation of students with scientific talent in JSHS activities.

It was moved and seconded that the recommendations of the Committee on the Collegiate Academy be implemented. The motion passed. The winners of the undergraduate awards were

- in Life Sciences: Cheryl Tabor, UALR
- in Physical Science & Math: David Coussens, Hendrix

P. M. Johnston, chairman of the Resolutions Committee, moved the adoption of the following resolution.

Be it resolved:

Secretary's Report

The members of the Arkansas Academy of Science express their gratitude to Robert Wright, Chairman of the Biology Department, and to the members of the local arrangements committee, Neal Buffaloe, Don Culwell, Fred Dalske, Arthur Hoyt and Denver Prince, for the careful planning of the meeting and for the sumptuous repast. Also, the Academy thanks the other members of the faculty of the Biology Department for their hospitality. Appreciation is expressed to the administration of the University of Central Arkansas for the use of the facilities of the university.

The Academy appreciates the efforts of the section chairmen and recognizes that they play an important role in the conduct of the meeting. To be noted are John Beadles (Aquatic Environment), James Daly (Biomedical Sciences), Robert Steinmeyer (Chemistry), Ken Steele (Geology), Joe Gunter (Physics/Mathematics), Henry Robison (Vertebrate Zoology), Carl Jameson (Geography), Peggy Dorris (Invertebrate Zoology), Neal Buffaloe (Science Education), and Gary Tucker (Botany). The members of the Arkansas Academy of Science rely heavily upon the officers of the Academy to implement the programs of the Academy. We extend our thanks to Robbin Anderson, President; Paul Sharrah, President-Elect; David Chittenden, Secretary; William Evans, Vice President; Arthur Johnson, Treasurer; V. Rick McDaniel, *Proceedings* editor; John Rickett, Newsletter editor; and in particular to Robert Kirkwood who is retiring as Historian.

The Academy expresses gratitude to the various directors of science youth activities which are supported by the Academy; Pat Howerton, Mike Rapp and Robert Kirkwood, Co-Directors of the Arkansas State Science Fair; Tom Palko, Director of the Junior Science and Humanities Symposium; Leo Paulissen, Science Talent Search; Marie Arthur, Director of the Arkansas Junior Academy of Science; and to Wayne Everett, who is Liaison Officer for all supported activities.

The Academy also wishes to recognize, along with President Farris and the biology faculty of the University of Central Arkansas, the renaming of the UCA Nature Reserve to the Jewel E. Moore Nature Reserve.

It was moved and seconded to elect the nominees for the offices of Vice President and Historian by acclamation. The motion passed.

It was moved and seconded to appropriate \$500 for editorial assistance and travel for the publication of the *Proceedings*. The motion passed.

It was moved and seconded that the Academy continue support for the publications of two editions of the Newsletter for 1983-1984. The motion passed.

President Anderson reported that a tentative invitation for the 1985 meeting had been made by representatives of the University of Arkansas at Monticello.

Dr. Neal Buffaloe presented the following statement and motion.

Mr. President, it is my opinion that science education at all levels in both the state and the nation is at a critical low point. On the whole, we seem to be doing little to educate the public on scientific issues that are crucial to our present and future welfare.

Therefore, I wish to move that the President of the Academy be authorized to appoint a special committee to explore ways and means whereby the Academy might communicate and cooperate with existing organizations, such as the Arkansas Science Teachers Association, whose aim it is to inform the public of scientific issues.

The motion was seconded and passed.

It was announced that the outstanding science teacher for Arkansas is Bill Ingram, Dardanelle High School. This is the last year for the award of a microscope from Bausch & Lomb.

President Anderson turned the gavel over to Paul Sharrah. President Sharrah adjourned the Second Business Meeting.

Respectfully submitted,

David M. Chittenden
Secretary