

1984

68th Annual Meeting, 1984. Secretary's Report and Financial Statement

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Recommended Citation

Editors, Academy (1984) "68th Annual Meeting, 1984. Secretary's Report and Financial Statement," *Journal of the Arkansas Academy of Science*: Vol. 38 , Article 3.

Available at: <http://scholarworks.uark.edu/jaas/vol38/iss1/3>

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ARKANSAS ACADEMY OF SCIENCE

Volume XXXVIII

1984

Proceedings

Paul Sharrah
President

William L. Evans
President-Elect

Gary Heidt
Vice-President

David M. Chittenden
Secretary

Arthur Johnson
Treasurer

Henry Robison
Historian

Secretary's Report

MINUTES OF THE SIXTY-EIGHTH ANNUAL MEETING — 6-7 APRIL 1984

FIRST BUSINESS MEETING

Dr. Paul Sharrah, President, opened the meeting and introduced Dr. James Halligan, interim Chancellor of UAF, who welcomed the Academy to the Fayetteville campus.

President Sharrah recognized Dr. Robbin Anderson who reminded the membership of the Science Education Symposium. Dr. William Evans, local arrangements chairman, summarized the meeting events.

President Sharrah recognized Dr. David Chittenden, Secretary, who presented the minutes of the 67th annual meeting as printed in the *Proceedings*.

Dr. Sharrah then recognized Dr. Arthur Johnson, Treasurer, who presented the following Financial Report.

FINANCIAL STATEMENT

March 11, 1983 to March 12, 1984

1. Annual Meeting, UCA, April 1-2, 1983		
a. Registration	\$ 1,040.00	
b. Banquet Tickets	643.75	
Total Meeting Income	1,683.75	\$ 1,683.75
2. Individual Memberships		
a. Regular (286)	2,860.00	
b. Sustaining (31)	417.00	
c. Sponsoring (6)	250.00	
d. Life (2)	400.00	
e. Associate (8)	40.00	
Total Individual Memberships	3,967.00	3,967.00
3. Institutional Dues ()		1,200.00
4. PROCEEDINGS, Subscriptions		1,112.50
5. PROCEEDINGS, Page Charges		1,940.00
6. PROCEEDINGS, Miscellaneous Sales		172.19
7. BIOTA Receipts		52.09
8. Arkansas Collegiate Academy of Science		53.86
9. Interest (First State Bank & Trust Co.)		
a. TOTAL Account	\$ 154.26	
b. Certificates of Deposit	213.58	
c. Savings Account	13.24	
Total Interest	381.08	381.08
TOTAL INCOME		\$10,562.38

1. PROCEEDINGS, Publication and Distribution		
a. IAS (#127)	\$ 26.65	
b. Jones Truck Lines (#131)	35.35	
c. Phillips Litho Co., Inc. (#133)	2,700.00	
(#136)	1,733.28	
(#140)	800.00	
d. Ark. State Dept. of Finance and Administration (#146)	1.40	
Total	\$ 5,291.69	\$ 5,291.69
2. Meeting Expenses (UCA Statement)		
a. Postage and Mailing	\$ 34.18	
b. Duplication of Programs	324.44	
c. Name Tags	26.21	
d. Refreshments	192.65	
e. Banquet	803.25	
f. Cash Handling Discrepancy	5.75	
Total	\$ 1,386.48	1,386.48
3. Awards		
a. Rebecca Sue Sample (#129)	\$ 35.00	
b. Timothy Jay Groseclose (#130)	30.00	
c. Ark. Jr. Acad. Sci. (#144)	200.00	
Total	\$ 265.00	265.00
4. Operating Costs		
a. Treasurer's Office		
1) Coleman's Office Supply (#128)	\$ 18.85	
(#130)	13.73	
2) Postage (#139)	20.00	
3) Instaprint (#143)	15.60	
b. Secretary's Office (#134)	125.00	
(#149)	100.00	
c. Newsletter		
1) UALR Biol. (#141)	44.56	
(#147)	14.58	
2) Copy Cat (#142)	114.40	
(#148)	114.97	
Ad Craft of Arkansas (#132)	62.25	
d. Ark. Collegiate Acad. Sci. (Insuff. Funds)	53.86	
f. BIOTA Printing (#135)	86.14	
g. Nat. Assoc. Acad. Sci. (#137)	25.00	
h. Douglas James (#145) Overpaid	10.00	
i. Ark. Lib. Comm. Ret. Sales Tax (#150)	4.50	
Total	\$ 823.44	823.44
TOTAL EXPENSES		\$ 7,766.61

Dr. Rick McDaniel, Editor of the *Proceedings*, presented a short synopsis of this year's edition and then moved that \$500 be appropriated for editorial assistance and \$120 for travel during the preparation of Volume 38. The motion will be voted on in the Second Business Meeting. (The motion was seconded.)

Dr. John Rickett, Editor of the Newsletter, reported that two editions of the Newsletter will again be published next year. He moved that \$335 be appropriated for the Newsletter in 1984-85. The motion was seconded. It will be voted on in the Second Business Meeting.

The Nominating Committee presented the following candidates for office:

For Vice President: Dr. Ed Bacon - UAM
Dr. Gary Tucker - ATU

For Secretary: Dr. Walt Godwin - UAM

John Peck, Chairman of the Arkansas Science Talent Search, reported that first prize in the 1984 Search had been won by Deborah Renay Fisher of Sheridan and the second place prize by Jon Anthony Davenport of White Hall. It was moved that the Academy continue to provide \$35 for first prize and \$30 for second prize for the 1985 Search. The motion was seconded. It will be voted on in the Second Business Meeting.

Leo Paulissen, Chairman of the Committee on Endowments, reported that initial contacts had been made with potential contributors and that the committee was optimistic that some funding was forthcoming. Efforts will be made to cover the state at a later date.

Marie Arthur, Director of the Junior Academy, reported that interest had increased in the Junior Academy and thus the number of regions had been increased from four to eight. A motion was made to continue the support of the Junior Academy at a level of \$200. The motion was seconded. The motion will be voted on in the Second Business Meeting.

Art Johnson presented the report of Michael Rapp, Director of the Arkansas Science Fair Association. It was moved that the Academy again appropriate \$100 for the support of the Science Fair. The motion was seconded. It will be voted on in the Second Business Meeting.

It was announced that the Academy had two invitations for the location of the 1986 meeting, from Ouachita Baptist University and from the University of Arkansas at Little Rock. The invitations were referred to the Meeting Site Committee. The membership was reminded that the 1985 meeting would be held at the University of Arkansas at Monticello.

President Sharrah adjourned the First Business Meeting.

SECOND BUSINESS MEETING

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

I move that the Minutes of the 67th Annual Meeting, published in the 37th *Proceedings* of the Arkansas Academy of Science be approved as written.

The motion was seconded and passed.

It was moved and seconded to accept the Treasurer's Report. Dr. Arthur Fry presented the following report from the Audit Committee.

The Audit Committee has examined the financial records of the Academy and finds them to be in good order. All receipts and expenditures are adequately accounted for and the books are in balance.

It was moved and seconded to accept the report of the Audit Committee. This motion passed. The motion concerning the Treasurer's Report passed.

The motions, made at the First Business Meeting, concerning funding were passed. These included the appropriations for

Junior Academy of Science
Arkansas Science Fair Association
Science Talent Search
Proceedings
Newsletter

Tom Palko reported that 108 papers had been submitted for the Junior Science and Humanities Symposium. Fifteen were read and five won a trip to the University of Wisconsin-LaCrosse.

Gary Heidt reported that the Undergraduate Awards has been won by

Robert Roundtree - UALR -
Comparative Study of the Diving Physiology of Reptiles

William Bednar - UAF - Irradiation of Dienes

Ballots were distributed for the vote for the offices of Vice President and Secretary. Those elected were

Vice President - Edmond Bacon
Secretary - Walt Godwin

The Meeting Site Committee recommended Ouachita Baptist University as the site for the 1986 meeting since OBU will be celebrating their centennial in that year. The Committee expressed its hope that UALR will extend an invitation for the 1987 meeting.

Leo Paulissen, reporting for the Biota Survey, announced that there were new checklists on mosses and beetles.

J. Kenneth Beadles, chairman of the Resolutions Committee, moved the adoption of the following resolution.

Be it resolved:

The members of the Arkansas Academy of Science express their gratitude to William L. Evans, President-Elect of the Academy, and to the other members of the local arrangements/program committee, Walter L. Manger and Lester C. Howick - for the precise planning of the meeting and for their efficient implementation of those plans. Also, the Academy thanks P. M. Johnston and other members of the faculty for their hospitality. Appreciation is expressed to the citizens of Fayetteville and the administration of the University of Arkansas for the use of the Continuing Education Center.

The Academy appreciates the efforts of each standing committee for their contributions to a very smooth and eventful year. To be noted are Robbin Anderson, Leo H. Bowman and Neal D. Buffaloe (Science and Mathematics Education), Joe M. Guenter, Jewel Moore and E. E. Dale (Nominating Committee), John Peck and Leo J. Paulissen (Arkansas Science Talent Search), Gary Heidt (Undergraduate Awards), Michael Rapp and Robert T. Kirkwood (Science Fair), Art Fry, J. H. Fribourgh and M. L. Lawson (Audit Committee), and Leo Paulissen, George Harp, Gary Heidt, Henry Robison, Arthur Johnson, and Gary Tucker (Arkansas Biota Survey Committee), Leo Paulissen (Endowment Committee), and George Templeton and Joe Guenter (Meeting Site Committee).

The Academy appreciates the efforts of the section chairman and recognizes that they play an important role in conducting the meeting. To be noted are Ken Beadles (Aquatic and Environmental), Gary Tucker (Botany), Neil

Allison (Chemistry I), Robert Steinmer (Chemistry II), Victor Vere (Geology), Peggy Dorris (Invertebrate Zoology), A. L. Barron (Microbiology and Immunology), John A. Sealander (Vertebrate Zoology), James L. Wickliff (Botany II), John Sorenson (Parasitology and Biomedicine), Neal Buffaloe (Science Education) and Gary Heidt (Vertebrate Zoology II). The members of the Academy rely heavily upon the officers to implement the programs. We extend our thanks to Paul C. Sharrah, President; William L. Evans, President-Elect; David Chittenden, Secretary; Gary Heidt, Vice President; Arthur Johnson, Treasurer; V. Rick McDaniell, *Proceedings* Editor; John Rickett, Newsletter Editor; and to Henry Robison as Historian.

We also express our gratitude to the directors of the various science activities which are supported by the Arkansas Academy of Science: Robert Wright, 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; and to Wayne Everett, Liaison Officer for all supported activities.

Special thanks are extended to Derek Sears for presenting the public lecture "Meteorites of Arkansas".

We also express our thanks to Sargent-Welch and Advanced Scientific Inc. for exhibiting some of their products at this sixty-eighth meeting of the Arkansas Academy of Science.

The motion was seconded and passed.

William Evans presented a plaque to the Secretary on his retirement from office.

President Sharrah turned the gavel over to President-Elect Evans. President Evans adjourned the Second Business Meeting.

Respectfully submitted,

David M. Chittenden
Secretary

REGULAR MEMBERS

Robert T. Allen	University of Arkansas	Dale Ferguson	University of Arkansas at Little Rock
Neil T. Allison	University of Arkansas	E. P. Floyd	E. P. Public Health Service (Retired)
Charles Angel	University of Arkansas for Medical Sciences	Thomas L. Foti	Oakleaf Institute Inc.
John T. Annulis	University of Arkansas at Monticello	Robert Franke	University of Arkansas at Little Rock
Michael L. Armstrong	Arkansas Fish and Game Commission	Richard A. Frietsche	U. S. Fish and Wildlife Service
Marie E. Arthur	Hagnot Cove High School (Retired)	Roy Z. Gehring	Arkansas State University
Dennis A. Bazyena	University of Arkansas at Little Rock	Collis R. Getem	University of Arkansas
Claudia F. Bailey	University of Arkansas	Shirley A. Gilmore	University of Arkansas for Medical Sciences
Steve Baker	Arkansas Game and Fish Commission	Walter E. Godwin	University of Arkansas at Monticello
Gwen Barber		T. E. Goodwin	Hendrix College
Sara M. Barnett		James B. Grace	University of Arkansas
Almen L. Barron	University of Arkansas for Medical Sciences	Donald C. Greenland	U. S. Fish and Wildlife Service
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C. Bhuvaneshwaran	University of Arkansas for Medical Sciences	Steven J. Haggblom	Arkansas State University
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Steve Bounds		Earl L. Hanebrink	Arkansas State University
William R. Bowen	University of Arkansas at Little Rock	George L. Harp	Arkansas State University
Robert E. Bowling	University of Arkansas for Medical Sciences	Jarvis Harper	Alcoa
Leo H. Bowman	Arkansas Tech University	Michael J. Harvey	Memphis State University
Jimmy D. Bragg	Henderson State University	Calvin J. Haskins	Arkansas Game and Fish Commission
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John F. Bridgman	College of the Ozarks	Gary A. Heidt	University of Arkansas at Little Rock
Billie C. Broach	University of Arkansas at Little Rock	John S. Heisa	University of Arkansas
Wilson Broach	University of Arkansas at Little Rock	Nancy M. Heisa	University of Arkansas
Arthur V. Brown	University of Arkansas	Mustafa Homati	Arkansas Tech University
Neal D. Buffaloe	University of Central Arkansas	David C. Hilborn	Arkansas State University
Fred L. Burnside	Arkansas Highway Department	Larry Hinc	Arkansas State University
Carl E. Cerniglia	National Center for Toxicological Research	Art Hobson	University of Arkansas
Charlie C. Chaffin	University of Arkansas at Little Rock	Sheila M. Hoelscher	Unified Computer Services
Stanley L. Chapman	University of Arkansas	Lester C. Howick	University of Arkansas
Maxine B. Clark		Arthur Hoyt Jr.	University of Central Arkansas
Joseph M. Clark		E. E. Hudson	Arkansas Tech University
Frances E. Clayton	University of Arkansas	Jim Huey	University of Arkansas at Monticello
R. R. Cohoon	Arkansas Tech University	Joe Jeffers	Ouchita Baptist University
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Janice L. Cooper	Arkansas State University	Bob D. Johnson	Arkansas State University
A. W. Cordes	University of Arkansas	Hugh A. Johnson	Southern Arkansas University
Tommie Crawford	Arkansas Game & Fish Commission	Michael I. Johnson	
Donald Culebill	University of Central Arkansas	Dale A. Johnson	University of Arkansas
Ovillie Cypret	Arkansas Power & Light Company	Jay Justice	
James L. Dale	University of Arkansas	Cynthia J. M. Kane	University of Arkansas for Medical Sciences
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Fred Dencke		Raj V. Kilambi	University of Arkansas
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Jamie Dudley	Arkansas State University	Roger E. Koeppe, II	University of Arkansas
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Jim Edson	University of Arkansas at Monticello	Louise Kraemer	University of Arkansas
Rudolph J. Eichenberger	Southern Arkansas University	Timothy A. Kral	University of Arkansas
Daniel R. England	Southern Arkansas University	Paul Krause	University of Central Arkansas
Don England	Harding University	Timothy T. Ku	University of Arkansas at Monticello
Lavana England-Whaley		Victoria F. Ku	University of Arkansas at Monticello
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Wilbur W. Everett	Ouchita Baptist University	Norman Lavers	
Nancy M. Eyster-Smith	University of Arkansas	Kwang Lee	University of Arkansas at Pine Bluff
Mary E. Farrell	University of Arkansas at Little Rock	Linda A. Lee	Arkansas State University

Charles A. Leone	University of Arkansas	Henry W. Robison	Southern Arkansas University
Barbara A. Lisle	University of Arkansas	Peggy Root	Southern Arkansas University
Thomas J. Lynch	University of Arkansas at Little Rock	Jerome C. Rose	University of Arkansas
Walter L. Manger	University of Arkansas	Ralph B. Roseburg	U. S. Fish and Wildlife Service
Jerry Manion	University of Central Arkansas	Ferry C. Rothrock, III	University of Arkansas
Maxine H. Manley		Mark Schran	University of Arkansas
Ali Mansouri	University of Arkansas for Medical Sciences	John A. Sealander	University of Arkansas
Horace N. Marvin	University of Arkansas for Medical Sciences	Derek W. G. Seare	University of Arkansas
Dan Mathews		Stephen Sewell	
H. Michael Matthews	University of Arkansas for Medical Sciences	Elwood B. Shade	University of Arkansas at Monticello (Retired)
Chris T. McAllister	Dallas VA Medical Center	Bill Shepherd	Arkansas Natural Heritage Commission
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Harlan McMillan	Arkansas Tech University	Kimberly G. Smith	University of Arkansas
Lawrence A. Mink	Arkansas State University	Edwin B. Smith	University of Arkansas
Ronald K. Mitchum	National Center for Toxicological Research	Kenneth L. Smith	Arkansas Natural History Commission
Thomas E. Moen	U. S. Fish and Wildlife Service (Retired)	Roy J. Smith, Jr.	U. S. Department of Agriculture
David L. Monte	University of Arkansas	Lee S. F. Soderberg	University of Arkansas for Medical Sciences
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Larry A. Olson	Arkansas State University	Lyell Thompson	University of Arkansas
Laurence Orji	University of Arkansas	Dan Timmersan	Arkansas State University
Tom Palko	Arkansas Tech University	Les Tochrans	University of Arkansas at Pine Bluff
Bryan D. Palmer	Henderson State University	Gary Tucker	Arkansas Tech University
David W. Paul	University of Arkansas	Victor Vero	Arkansas Tech University
Leo J. Paulissen	University of Arkansas	A. Nelson Voldang	University of Arkansas for Medical Sciences
Mark A. Paulissen	University of Oklahoma	David L. Vosburg	Arkansas State University
John Peck	University of Central Arkansas	George H. Wagner	University of Arkansas
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Ernest J. Peck	University of Arkansas for Medical Sciences	Jerry G. Webb	University of Arkansas at Monticello
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Jacob R. Phillips	University of Arkansas	James L. Wickliff	University of Arkansas
Norbert J. Pinta	University of Arkansas	Robert W. Wiley	University of Arkansas at Monticello
Robert A. Pierce	Univ. of Arkansas Cooperative Extension Service	J. D. Wilhite	Arkansas State University
Michael V. Plummer	Harding University	Mary S. R. Williams	University of Arkansas
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Alan D. Price	Arkansas State University	James A. Wisman	University of Arkansas
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Randy Cox	University of Arkansas	Yvonne Shao	University of Arkansas at Monticello

SUSTAINING MEMBERS

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Joe M. Guenther	University of Arkansas at Monticello		

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James H. Fribourgh	University of Arkansas at Little Rock	Betty M. Spears	Centenary College
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