

1985

69th Annual Meeting, 1985. Secretary's Report and Financial Statement

Academy Editors

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ARKANSAS ACADEMY OF SCIENCE

Volume XXXIX

1985

Proceedings

William L. Evans
President

Gary Heidt
President-Elect

Gary Tucker
Vice-President

Walter Godwin
Secretary

Arthur Johnson
Treasurer

Henry Robison
Historian

Secretary's Report

MINUTES OF THE SIXTY-NINTH ANNUAL MEETING -- 5-6 APRIL 1985

FIRST BUSINESS MEETING

William Evans, President, opened the meeting and introduced Dr. Fred Taylor, Chancellor of the University of Arkansas at Monticello, who welcomed the Academy to the campus.

Bob Wiley, Local Arrangements Chairman, summarized meeting events, especially the banquet, Sigma Xi breakfast, and group picture to be made after the Second Business Meeting.

Walter Godwin, Secretary, presented the minutes of the Sixty-Eighth Annual Meeting and asked for any corrections to be presented in writing before the Second Business Meeting.

Art Johnson, Treasurer, presented the Financial Report. An Audit Committee consisting of Raj Kilambi (Chairman), Dan England, and Alex Nisbet will examine the report. A copy of the report follows.

ANNUAL FINANCIAL STATEMENT

March 12, 1985

Statement Approved by Audit April 6, 1984

First State Bank and Trust Co., Conway, AR:

TOTAL Account	\$ 5,344.71
Certificates of Deposit	
Acct. No. 0005-107-2	603.58
Acct. No. 0005-107-9	1,207.16
Total Funds, April 6, 1984	\$ 7,155.45

SUMMARY

(March 12, 1984 to March 12, 1985)

Balance Approved by Audit on April 6, 1984	\$ 7,155.45
Total Income (Page 2)	\$ 7,914.88
Total Expenses (Page 3)	7,005.15
Balance for the Year	\$ 909.73
Funds on Hand March 12, 1985	\$ 8,065.18

DISTRIBUTION OF ACCOUNTS

TOTAL Account	\$ 4,988.38
Certificates of Deposit	
First State Bank and Trust Co. Acct. No. 71-0361781	2,052.89
Security Savings and Loan Association of Conway Acct. No. 48490.7	1,023.91
	\$ 8,065.18

INCOME: March 12, 1984 to March 12, 1985

1. Annual Meeting: UAF April 5-6, 1984		\$ 727.72
2. Individual Memberships		
a. Regular (175)	\$ 1,750.00	
b. Sustaining (15)	225.00	
c. Sponsoring (7)	400.00	
d. Life (1)	200.00	
e. Associate (8)	40.00	
Total Memberships	\$ 2,615.00	2,615.00
3. Institutional Dues (19)		950.00
4. PROCEEDINGS, Subscriptions, Misc. Sales		1,173.77
5. PROCEEDINGS, Page Charges		1,760.00
6. BIOTA Receipts		12.00
7. Interest: First State Bank and Trust Co.		
a. TOTAL Account	\$ 210.33	
b. Certificates of Deposit	266.06	
Total Interest	\$ 476.39	476.39
8. Endowment		200.00
TOTAL INCOME		\$ 7,914.88

EXPENSES: March 12, 1984 to March 12, 1985

1. PROCEEDINGS: Publication and Distribution		
a. Phillips Litho Company, Inc. (#158)	\$ 5,328.91	
b. V. Rick McDaniel (#152)	117.53	
c. Mary Ann McDaniel (#153)	500.00	
Total	\$ 5,946.44	\$ 5,944.44
2. Awards		
a. Best Sports (#151)	\$ 38.32	
b. Deborah Renay Fiser (#155)	35.00	
c. Jon Anthony Davenport (#156)	30.00	
d. Arkansas Junior Academy of Science Norman L. Hoover (#156)	200.00	
Total	\$ 303.32	303.32
3. Treasurer's Office		
a. Coleman's Office Supply (#157,163)	\$ 19.57	
b. Hendrix College Biology Dept. (#159)	20.00	
Total	\$ 39.57	39.57
4. Secretary's Office		
a. Walter Godwin (#160)	\$ 125.00	
b. David Chittenden (#161)	15.97	
Total	\$ 140.97	140.97
5. Newsletter		
a. UALR Biology Department (#165,170)	\$ 99.60	
b. Copy Cat (#164,169)	317.35	
Total	\$ 416.95	416.95

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6. BIOTA Printing (#162) Leo Paulisson	89.90
7. National Association of Academies of Science (#154, 168)	50.00
8. Lyell Thompson (#171) Dues Overpaid	10.00
9. Bad Check	10.00
TOTAL EXPENSES	\$ 7005.15

Respectfully Submitted
Arthur A. Johnson
 Arthur A. Johnson, Treasurer

Meeting: April 5-6, 1985
 University of Arkansas at Monticello
 Monticello, Arkansas

Rick McDaniel, Editor of the *Proceedings*, presented a report on this year's edition indicating that about 30 articles were submitted most of which will be published. The size will be down some. Due to delays, the *Proceedings* will not be available until June. He requested that section chairmen be sure to collect papers at the sessions.

John Rickett, Editor of the Newsletter, requested that any comments on the Newsletter be given to him. He reported that the Executive Committee had voted to continue the membership drive using the fall newsletter.

Robin Anderson, Chairman of the Science Education Committee, pointed out the need for a continuing Science Education Committee and the need for the Academy to support and encourage activity. A resolution will be presented at the Second Business Meeting.

Mike Rapp, Director of the Arkansas Science Fair Association, reported on the Science Fair and the Junior Academy. Seven Regional Fairs have been held and the State Fair and Junior Academy meeting will be held in Conway on April 11 & 12. About 170 for the Science Fair and 75 for the Junior Academy are expected. Dr. Norm Hoover is Director of the Junior Academy. Continued support from the Academy will be requested at the Second Business Meeting.

John Peck, Director of the Arkansas Science Talent Search, reported that the program is going well and that cash awards have been given to first and second place winners.

Art Fry, Chairman of the Constitution Committee, reported on recommended changes to the constitution. The proposed changes were distributed and will be acted on at the Second Business Meeting.

Leo Paulissen, Chairman of the Committee on Endowments, reported on the endowment fund. Pel Frez has donated \$200. The Fayetteville Sigma Xi Chapter has donated \$100. Individual contributions have brought the total to \$400. A total of \$500 is needed for a CD. Interest will be used to support activities. He also reported on the Biota Survey. Two new checklists are available including one on spiders.

The Undergraduate Awards Committee for the current meeting will be Jim Huey (Chairman), Joe Guenter, and Bill Nicholson.

The Resolutions Committee will consist of Ed Wilson (Chairman), George Harp, and Dale Ferguson.

President Evans adjourned the First Business Meeting.

SECOND BUSINESS MEETING

William Evans, President, called the meeting to order.

Walter Godwin, Secretary, moved the approval of the minutes of the Sixty-Eighth Annual Meeting as distributed. The motion was seconded and passed.

Art Johnson, Treasurer, moved that the Treasurer's Report be approved. The motion was seconded. Raj Kilambi presented the following report from the Audit Committee.

The Audit Committee examined the attached 1984-85 Annual Financial Record of the Academy and checked them with the detailed accounts submitted to us. In our opinion, 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. The motion passed. The initial motion concerning acceptance of the Treasurer's Report passed.

Rick McDaniel, Editor of the *Proceedings*, stated that the Sixty-Eighth *Proceedings* will be ready for distribution in June. In so far as possible, copies will be mailed in packets to various institutions. It now appears that a good number of papers will be included in next year's *Proceedings*. McDaniel presented the following motion.

Mr. President and members of the Arkansas Academy of Science, I move that the Academy allocate \$500.00 for editorial assistance and \$120.00 for travel by the Editor during the next year. This is the same amount authorized last year.

The motion was seconded and passed.

John Rickett, Editor of the Newsletter, moved that \$475 be allocated for the Newsletter for next year. The motion was seconded and passed.

Henry Robison, Historian, reported that this is the Sixty-Ninth Annual Meeting and the third to be held in Monticello. It is the first meeting here since 1942. He noted the passing of Dr. Dwight Moore, founder of the modern Academy, and stated that he had recorded comments by Dr. Moore prior to his death. He also stated that he needs any old pictures of past activities, officers, and so forth.

Art Fry, Chairman of the Constitution Committee, moved the adoption of the proposed changes in the Constitution as distributed at the First Business Meeting. The report is as follows:

The Constitution Committee of the Arkansas Academy of Science, Peggy Dorris, Clark McCarty, and Art Fry (Chairman), recommends the following changes to the By-Laws of AAS:

A. Change Article 6. which now reads:

- Expenditures exceeding \$50 require an order signed by the President before payment can be made.

To read:

- Expenditures in excess of \$200 which have not been specifically authorized by the Academy at a prior annual business meeting require written approval by the President before payment can be made.

B. Add a new Article 15:

- The Arkansas Academy of Science is the parent organization of the Arkansas Junior Academy of Science. The appointment of the Director of the Arkansas Junior Academy of Science is made by the President of the Arkansas Academy of Science for a period of three years. The Director will operate with the advice of

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a Board of Regional Directors appointed by the President of the Arkansas Academy of Science. The Regional Directors serve at the pleasure of the President.

C. Change Article 4. which now reads:

4. Persons presenting papers with the intent of having them published in the *Proceedings* shall present a final copy of the paper to the Chairman of the appropriate section on the day of presentation. The Editorial Board shall be under no obligation to consider papers submitted after this date.

To read:

4. Persons presenting papers with the intent of having them published in the *Proceedings* shall present an original and one copy of the paper to the Chairman of the appropriate section on the day of presentation. The Editorial Board shall be under no obligation to consider papers submitted after this date.

E. E. Hudson, Chairman of the Nominating Committee, presented the nominees for Vice President. The nominees were Gary Tucker, Arkansas Tech University, and George Harp, Arkansas State University. Ballots were distributed. A count of the ballots indicated that Gary Tucker had been elected as Vice President.

Walter Godwin on behalf of Mike Rapp, Director of the Arkansas Science Fair Association, moved that the Academy again appropriate \$100 for the support of the Science Fair. The motion was seconded and passed.

Walter Godwin on behalf of Norm Hoover, Director of the Junior Academy, moved that the Academy again appropriate \$200 for support of the Junior Academy. The motion was seconded and passed.

Dr. Tom Palko, Director of the Arkansas Junior Science and Humanities Symposium, reported that the symposium was held in Russellville this year with 99 papers being submitted with 19 of those being presented and six winners going on to National.

Robin Anderson, Chairman of the Science Education Committee, presented a resolution as follows:

The next several years will be very active ones for science education in Arkansas. This may involve numerous activities at college level for the Arkansas Academy of Science and its members, plus new opportunities for cooperation with other professional organizations and educational and community agencies.

To assist the President and Executive Committee in meeting these needs, we recommend that the Science Education Committee be appointed on a continuing basis.

The resolution was adopted.

Jim Huey, Chairman of the Undergraduate Awards Committee, commended the students for a job well done at the current meeting. He reported that the Undergraduate Awards had been won by:

Mark S. Ross - UALR - Demonstration of a Heat-Stable Guanosine Monophosphate (Cyclic GMP) Phosphodiesterase from the Medium of the Myxomycete *Physarum flavicomum*

Terry Gilton - UALR - Thermosetting Adhesive Resins from Whey and Whey Byproducts

The Executive Committee has voted to award \$50 to each winner on a continuing basis.

Leo Paulissen, Chairman of the Committee on Endowments, repeated information on the endowment fund from the first business meeting. He added that individual donations had raised the total to over \$400. He mentioned that donations may be made in the form of memorials. In regard to the Biota Survey, he reemphasized the availability of two new checklists including one on spiders.

Edmond Wilson, 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 the University of Arkansas at Monticello for hosting the 1985 meeting of the Arkansas Academy of Science. In particular, thanks is given to Edmond Bacon, Chairman of the Department of Natural Sciences and to members of the local arrangements committee: Robert Wiley, Chairman; Eric Sundell; Jim Edson; and Walter Godwin. Appreciation is expressed to all concerned who helped provide the pleasant spacious facilities and excellent banquet. Also, thanks is given to John Firor of the National Center for Atmospheric Research for his presentation on acid rain.

The Academy appreciates the efforts of the various section chairpersons and recognizes that they play an important role in the conduct of the meeting. To be noted are: R. Anderson and Arthur Brown (Symposium on Cooperative Activities in Science Education), Henry Robison (Aquatic and Environmental I), Edmond Wilson (Chemistry), V. Rick McDaniel (Vertebrate Zoology I), Don Culwell (Botany), Dale Ferguson (Microbiology and Immunology), Roland McDaniel (Aquatic and Environment II), Dan England (Vertebrate Zoology II), Peggy Dorris (Invertebrate Zoology), James Daley (Parasitology and Biomedicine), and George Harp (Science Education).

The Academy expresses gratitude to the various directors of the science youth activities which are supported by the Academy: Robin Anderson and Art Brown, Science Education Committee; Mike Rapp, Director of the Arkansas State Science Fair; Tom Palko, Director of the Junior Science and Humanities Symposium; John Peck and Leo Paulissen, Science Talent Search; and Norman Hoover, Director of the Arkansas Junior Academy of Science.

The Academy is only as successful as its leadership in planning, working, and directing the various activities. To William Evans, President; Gary Heidt, President-Elect; Edmond Bacon, Vice President; Walter Godwin, Secretary; Art Johnson, Treasurer; Paul Sharrah, Past President; Rick McDaniel, *Proceedings* Editor; John Rickett, Newsletter Editor; and Henry Robison, Historian; the Academy expresses gratitude and thanks for an excellent year.

The Academy expresses thanks and encouragement to continue to Sargent Welch and Advanced Scientific, Inc. for their exhibition booths at the meeting.

The Academy recognizes the dedicated and thorough work of Arthur Fry, Chairman; Peggy Dorris; and Clark

McCarty in reviewing the Constitution and Bylaws of the Academy. Also, appreciation is tendered to Leo Paulissen for his work on the Endowment Fund. Jim Huey, Chairman; Joe Guenter; and Bill Nicholson are thanked for their efforts on the Student Awards Committee as well as E.E. Hudson, Dan England, and W. C. Guest for their work on the Nominating Committee.

The Academy is appreciative for the design and art work on the signs, name badges, and cover of the Program to Calvin Cotton of Monticello.

Finally, the Academy expresses fond remembrance and regret in the deaths of two of its members, Dwight Moore and Dave Becker.

The motion was seconded and passed.

Leo Paulissen reported for John Peck, Director of the Science Talent Search. Two winners have been identified and one has received national recognition.

President Evans asked for any new business and none was presented.

The meeting site for the 1986 meeting was announced as Ouachita Baptist University. An invitation for the 1987 meeting has been extended by UALR and was accepted with details to be worked out later.

The President announced that a group picture will be made after the business meeting and will be retained as a part of the Academy historical records.

President Evans turned the gavel over to President-Elect Gary Heidt. President Heidt adjourned the meeting.

Respectfully submitted,

Walter E. Godwin

Walter E. Godwin
Secretary

REGULAR MEMBERS

John T. Annulis	University of Arkansas at Monticello	Glenn Good	Ouachita Baptist University
Michael L. Armstrong	Arkansas Fish and Game Commission	Thomas E. Goodwin	Hendrix College
Edmond J. Bacon	University of Arkansas at Monticello	Donald C. Greenland	U. S. Fish and Wildlife Service
Dennis A. Baeyens	University of Arkansas at Little Rock	Gaston Griggs	John Brown University
John A. Baker	USAR/MES	William C. Guest	University of Arkansas
Owen Barber	University of Central Arkansas	Bruce Haggard	Hendrix College
Sara M. Barnett	Texasiana High School	Earl L. Hambrick	Arkansas State University
Almen L. Barron	University of Arkansas for Medical Sciences	Richard H. Hanson	University of Arkansas at Little Rock
Adelphia M. Basford	Henderson State University (Retired)	George L. Harp	Arkansas State University
Salva Bass	University of Central Arkansas	Jarvis Harper	Alcoa
John K. Beadles	Arkansas State University	John L. Harris	Arkansas Highway and Transportation Department
Ann Marie Benson	University of Arkansas for Medical Sciences	Calvin J. Haskins	Arkansas Game and Fish Commission
C. Bhuvanavaran	University of Arkansas for Medical Sciences	Roger M. Hawk	University of Arkansas - Graduate Institute of Technology
Veryl V. Board	Arkansas College	Gary A. Heidt	University of Arkansas at Little Rock
Laurence J. Boucher	Arkansas State University	Mustafa Hemmati	Arkansas Tech University
William B. Bowen	University of Arkansas at Little Rock	Larry Hinck	Arkansas State University
Robert E. Bowling	University of Arkansas for Medical Sciences	Maxine H. Hite	University of Arkansas
Leo H. Bowman	Arkansas Tech University	Art Hobson	University of Arkansas at Little Rock
Jimmy D. Bragg	Henderson State University	John R. Hodges	University of Arkansas at Little Rock
Marge A. Brewster	University of Arkansas for Medical Sciences	Kathleen L. Hornberger	University of Arkansas
John F. Bridgman	College of the Ozarks	Lester C. Howick	University of Arkansas
Hal Brown	Lake Fayetteville Environmental Study Center	Arthur Hoyt Jr.	University of Central Arkansas
Charles T. Bryant	U. S. Geological Survey	S. E. Hudson	Arkansas Tech University
Neal D. Buffalo	University of Central Arkansas	Jim Huey	University of Arkansas at Monticello
E. Robert Burns	University of Arkansas for Medical Sciences	Joe Jeffers	Ouachita Baptist University
Fred L. Burnside	Mississippi State University	David Jimereson	Arkansas State University
Ronald S. Caldwell	Arkansas College	Donn T. Johnson	University of Arkansas
Michael Cartwright	Arkansas Game & Fish Commission	Michael I. Johnson	Nettleton High School
Carl E. Cerniglia	National Center for Toxicological Research	Hugh A. Johnson	Southern Arkansas University
Charlie Cole Chaffin		Bob D. Johnson	Arkansas State University
Stanley L. Chapman	University of Arkansas Cooperative Extension Service	Sharon L. Johnson	Arkansas State University
John S. Choinski, Jr.	University of Central Arkansas	Jay Justice	
Frances E. Clayton	University of Arkansas	Cynthia Jane Heddrass Kane	University of Arkansas for Medical Sciences
R. K. Coburn	Arkansas Tech University	Alyan A. Karlin	University of Arkansas at Little Rock
Richard A. Collins	University of Central Arkansas	Philip L. Kohler	University of Arkansas at Little Rock
Janice L. Cooper	Arkansas State University	William E. Keith	Arkansas Department of Pollution Control and Ecology
Tommie Crawford	Arkansas Game & Fish Commission	Raj V. Kilambi	University of Arkansas
Donald Culwell	University of Central Arkansas	Scott Kirkconnell	Arkansas Tech University
James L. Dale	University of Arkansas	Maurice G. Kieve	University of Arkansas at Little Rock
Fred Dalake	University of Central Arkansas	Scott S. Knight	U. S. Army Engineer Waterways Experiment Station
James J. Daly	University of Arkansas for Medical Sciences	Roger E. Koeppel, II	University of Arkansas
Stanley M. David	Arkansas State University	Louise R. Kraemer	University of Arkansas
Fred Denke		Timothy A. Kral	University of Arkansas
Ronald H. Doran	Harding University	Jack C. Kreie	Fayetteville Schools
Peggy E. Dorris	Henderson State University	Timothy T. Ku	University of Arkansas at Monticello
Jamie D. Dudley	Arkansas State University	Forrest E. Lane	University of Arkansas
Benjamin T. Dubart	University of Arkansas at Pine Bluff	Marie L. Lavallard	University of Arkansas (Retired)
Jim Edeon	University of Arkansas at Monticello	Norman Lavers	Arkansas State University
Rudolph J. Eichenberger	Southern Arkansas University	Kwang Lee	University of Arkansas at Pine Bluff
A. E. Eisart	University of Arkansas	J. L. Linnasaedter	Arkansas State University
Hudson B. Eldridge	University of Central Arkansas	A. H. Ludwig	U. S. Geological Survey
Daniel R. England	Southern Arkansas University	Thomas J. Lynch	University of Arkansas at Little Rock
Don England	Harding University	All Mansouri	University of Arkansas for Medical Sciences
Lavana England-Whaley		Horace N. Marvin	University of Arkansas for Medical Sciences
Claude E. Epperson	University of Arkansas for Medical Sciences	Daniel M. Mathews	University of Arkansas for Medical Sciences
Albert Etheridge	University of Arkansas at Monticello	Kenneth G. Matucha	Southern Arkansas University - El Dorado Branch
Milbur W. Everett	Ouachita Baptist University	Herbert M. Matthews	University of Arkansas for Medical Sciences
Dale Ferguson	University of Arkansas at Little Rock	Chris T. McAllister	Dallas VA Medical Center
Don W. Finnie	Mississippi Co. Community College	Nancy Glover McCartney	University of Arkansas
Sheldon Fitzpatrick	University of Arkansas at Pine Bluff	Clark W. McCarty	Ouachita Baptist University
E. F. Floyd	U. S. Public Health Service (Retired)	Kose McConnell	University of Arkansas at Monticello
Thomas L. Foti	Arkansas Natural History Commission	J. S. McConnell	University of Arkansas
Rubert Franks	University of Arkansas at Little Rock	Roland E. McDaniel	Arkansas Pollution Control & Ecology
Richard A. Frietsche	U. S. Fish and Wildlife Service	Joseph McGrath	Arkansas State University
Roy Z. Gehring	Arkansas State University	Dennis W. Mc Masters	Henderson State University
Collis K. Geren	University of Arkansas	Harlan McMillan	Arkansas Tech University
Shirley A. Gilmore	University of Arkansas for Medical Sciences	Laverence A. Mink	Arkansas State University
Terry L. Gilton	University of Arkansas at Little Rock	James Kent Mitchell	University of Arkansas
Walter E. Godwin	University of Arkansas at Monticello	David L. Monte	University of Arkansas
Susanne M. Gollin	University of Arkansas for Medical Sciences	Mrs. Dwight (Clementine) Moore	

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Jewel E. Moore	University of Central Arkansas (Retired)	Dewey H. Sifford	Arkansas State University
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G. J. Musick	University of Arkansas	Katherine G. Smith	University of Arkansas
Paul Niss	Arkansas State University	Edwin B. Smith	University of Arkansas
Thomas Nelson	Arkansas Tech University	Roy J. Smith, Jr.	U. S. Department of Agriculture
Ann H. Nichols	University of Arkansas at Little Rock	Clifford S. Snyder	University of Arkansas, Cooperative Extension Service
William F. Nicholson	University of Arkansas at Monticello	John H. J. Sorenson	University of Arkansas College of Pharmacy
Joe Nix	Ouchita Baptist University	Carl R. Stapleton	University of Arkansas at Little Rock
Timothy J. O'Brien	University of Arkansas for Medical Sciences	Harlan K. Stoin	University of Arkansas
Laurence Orji	University of Arkansas	John E. Stuckey	Hendrix College
Tom Palko	Arkansas Tech University	David O. Te Beest	University of Arkansas
Bryan D. Palmer	Henderson State University	Peter Thomford	University of Arkansas for Medical Sciences
Mark A. Paulissen	University of Oklahoma	Lylel Thompson	University of Arkansas
Leo J. Paulissen	University of Arkansas	John T. Thurmond	University of Arkansas at Little Rock
Carol J. Peck	Arkansas State Plant Board	Dan Timmerman	Arkansas State University
John D. Peck	University of Central Arkansas	Les Torrans	University of Arkansas at Pine Bluff
Ernest J. Peck	University of Arkansas for Medical Sciences	Stanley E. Trauth	Arkansas State University
James H. Peck	University of Arkansas at Little Rock	Gary Tucker	Arkansas Tech University
Carlos H. Pennington	USAR Waterways Experiment Station	Randal Tucker	University of Arkansas
Thomas F. Peter	University of Arkansas at Little Rock	Sean Tumlison	Oklahoma State University
James C. Petersen	U. S. Geological Survey	Glyn Turnipseed	Arkansas Tech University
Jacob K. Phillips	University of Arkansas	David L. Voeburg	Arkansas State University
Norbert J. Pienta	University of Arkansas	George H. Wagner	University of Arkansas
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Mark S. Ross	University of Arkansas at Little Rock	Robert W. Wiley	University of Arkansas at Monticello
Perry C. Rothrock, III	University of Arkansas for Medical Sciences - Student	William M. Willingham	University of Arkansas for Medical Sciences
F. L. Setliff	University of Arkansas at Little Rock	Deborah Ann Wilson	Bryant Public Schools - Chemistry
Elwood B. Shade	University of Arkansas at Monticello (Retired)	Edmond W. Wilson, Jr.	Harding University
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ASSOCIATE MEMBERS

Richardo Davis	University of Arkansas at Little Rock	Luis Morales	Arkansas State University
Brian Harrod	University of Arkansas	Mark Pippenger	Arkansas State University

SUSTAINING MEMBERS

Judith A. Bean	University of Central Arkansas	Alex R. Hisebet	Ouchita Baptist University
Gary Burtle	University of Arkansas at Pine Bluff	Alan D. Price	Arkansas Dept. of Pollution Control and Ecology
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Larry W. Dorman	University of Arkansas	John Rickett	University of Arkansas at Little Rock
Arthur Fry	University of Arkansas	David A. Saugey	U. S. Forest Service
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LIFE MEMBERS

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James H. Fribourgh	University of Arkansas at Little Rock	George E. Templeton	University of Arkansas
Henry W. Robison	Southern Arkansas University		