

1986

70th Annual Meeting, 1986. Secretary's Report and Financial Statement

Academy Editors

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Recommended Citation

Editors, Academy (1986) "70th Annual Meeting, 1986. Secretary's Report and Financial Statement," *Journal of the Arkansas Academy of Science*: Vol. 40, Article 3.

Available at: <http://scholarworks.uark.edu/jaas/vol40/iss1/3>

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PROCEEDINGS ARKANSAS ACADEMY OF SCIENCE

Volume XXXX

1986

Gary Heidt
President

Edmond Bacon
President-Elect

Gary Tucker
Vice-President

Walter Godwin
Secretary

Arthur Johnson
Treasurer

UNIVERSITY OF ARKANSAS
Henry Robison
Historian

FEB 8 1989

Secretary's Report

MINUTES OF THE SEVENTYTH ANNUAL MEETING, 4-5 APRIL 1986, FAYETTEVILLE, ARKANSAS

FIRST BUSINESS MEETING

Gary Heidt, President, called the meeting to order.

Joe Jeffers, Local Arrangements Chairman, introduced Dr. Daniel Grant, President of Ouachita Baptist University, who welcomed the Academy to campus. He summarized meeting events and indicated that a group picture would be made after the Second Business Meeting.

Walter Godwin, Secretary, presented the minutes of the Sixty-Ninth 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 Jim Fribrough (Chairman), Art Fry, and Hugh Johnson will examine the report. A copy of the report follows.

INCOME: March 12, 1985 to March 12, 1986

1. ANNUAL MEETING: UAM APRIL 5-6, 1985		\$ 3,185.00			
2. INDIVIDUAL MEMBERSHIPS					
a. Regular (107)	\$ 1,070.00				
b. Sustaining (8)	120.00				
c. Sponsoring (11)	725.00				
d. Associate (3)	15.00				
Total	1,930.00	1,930.00			
3. INSTITUTIONAL MEMBERSHIPS (8)		400.00			
4. PROCEEDINGS, Subscriptions, Misc. Sales		1,132.62			
5. PROCEEDINGS, Page Charges		1,620.00			
6. BIOTA RECEIPTS		12.00			
7. INTEREST		620.73			
a. First State Bank and Trust Co. (Conway)					
1) TOTAL Account	316.42				
2) CD(0007-769-4)	213.12				
b. Security Savings and Loan Assn. (Conway)					
CD(C-01-70048490)	91.19				
8. ENDOWMENT		550.00			
TOTAL INCOME			\$ 9,550.35		

ANNUAL FINANCIAL STATEMENT

MARCH 12, 1986

Statement Approved by Audit April 6, 1985

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

TOTAL Account	4,988.38	
Certificates of Deposit(71-0361781)	2,052.89	
Security Savings and Loan Association of Conway		
Certificate of Deposit(48490.1)	1,023.91	

Total Funds, April 6, 1985	\$ 8,065.18	

SUMMARY

(March 12, 1985 to March 12, 1986)

Balance Approved by Audit on April 6, 1985	\$ 8,065.18	
Total Income (Page 2)	9,550.35	
Total Expenses (Page 3)	8,979.49	
Balance for the Year	\$ 570.86	570.86

Funds on Hand as of March 12, 1986	\$ 8,636.04	

DISTRIBUTION OF ACCOUNTS

TOTAL Account	\$ 5,254.93	
Certificates of Deposit		
First State Bank and Trust Co., Conway(0007-769-4)	2,266.01	
Security Savings and Loan Assn., Conway(C 01-70048490)	1,115.10	

Total	\$ 8,636.04	

EXPENSES: March 12, 1985 to March 12, 1986

1. PROCEEDINGS: Publication and Distribution					
a. Phillips Litho Co., Inc. (#189)	\$5,562.97				
b. V. Rick McDaniel (#186)	104.75				
c. Mary Ann McDaniel (#188)	500.00				
Total	6,167.72	\$ 6,167.72			
2. AWARDS					
a. Mark S. Ross (#173)	50.00				
b. Terry Gilton (#172)	50.00				
c. Eugene Sargent (#174)	35.00				
d. Douglas J. Thacker (#175)	30.00				
e. Arkansas State Science Fair (#176)	100.00				
Total	265.00	265.00			
3. MEETING EXPENSES (UAM Statement)					
a. Prof. Food Service Management (#182)	1,088.25				
b. Geographics (#183)	80.00				
c. James Quick Print (#184)	241.51				
d. Robert W. Wiley (#185)	138.97				
Total	1,548.73	1,548.73			
4. OPERATING COSTS					
a. President's Office					
1) UAF Cashier's Office (#180)	9.68				
2) McRoy & McNair, Inc. (#181)	3.18				
3) Arthur A. Johnson (#191)	9.17				
4) U. S. Postal Service (#192)	28.60				
b. Secretary's Office-Postage (#187,190)	250.00				
c. Treasurer's Office-Postage (179,195)	44.00				
Total	344.63	344.63			

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5. NEWSLETTER			
a. Copy Cat(#193,198)	428.40		
b. UALR Biology Department(#194,197)	122.96		
Total	551.36	551.36	
6. MISCELLANEOUS			
a. Biota Printing(#178)	31.35		
b. EBSCO(#196)	45.00		
c. Check--Insufficient Funds	5.00		
d. National Assn. Acad. Sciences(#199)	20.70		
Total	102.05	102.05	
TOTAL EXPENSES		\$ 8,979.49	

Respectfully Submitted



Arthur A. Johnson, Treasurer

Meeting: April 4-5, 1986
Ouachita Baptist University
Arkadelphia, Arkansas

Rick McDaniel, Editor of the *Proceedings*, presented a report on this year's edition indicating that the *Proceedings* will be ready in a few weeks. A total of 52 papers were submitted of which 21 will be published in full and 24 will be published as notes. There will be a total of 150 pages. Due to the size, the *Proceedings* must be bound specially creating the delay in distribution. He stated that the page charges will be increased from \$20 to \$25 per page with the next *Proceedings*. He reminded section chairs be sure to collect papers at the sessions and to turn those papers in. He presented the following motion:

Mr. President, I move that the Academy appropriate \$500.00 for editorial assistance and \$120.00 for travel for preparation of Volume 40 of the *Proceedings*.

The motion was seconded and will be voted on at the Second Business Meeting.

John Rickett, Editor of the Newsletter, requested that any comments on the Newsletter be given to him. He moved that the Academy appropriate \$580 for the cost of the Newsletter for next year. The motion was seconded and will be voted on at the Second Business Meeting.

Mike Rapp, Director of the Arkansas Science Fair Association, reported on the Science Fair and the Junior Academy. Over 200 students participated in the State Fair and Junior Academy meeting had about 75 papers. He thanked the Academy for the good response to the call for judges. Three students went to the International Fair and won a first and fourth in engineering and a first in physics plus having the overall winner. He moved that the Academy continue to support the Science Fair in the amount of \$200 (\$25 for each Regional Fair and \$25 for the State Fair) and to continue to support the Junior Academy in the amount of \$200. The motion was seconded and will be voted on at the Second Business Meeting.

John Peck, Director of the Arkansas Science Talent Search, reported on the results of this year's Talent Search. His report follows.

Following is the list of high school seniors who placed in the 35th Annual Arkansas Science Talent Search 1985-86, held in conjunction with the 45th Westinghouse Science Talent Search.

	First Place
Todd Harrison Rider	School: Ole Main High School
501 West A Street	Teacher: Bonnie Moody
North Little Rock, AR	Project: How Can Rocketry Staging
72116	Be Improved

	Second Place
Charles Eldon King	School: Springdale High School
Rt. 3, Box 173,	Teacher: David A. Young
King's Rd.	Project: Evidence of Benzo(a)pyrene
Springdale, AR 72764	in the Saliva of Cigarette
	Smokers

He also reported that one student attending the national talent search placed in the top 10 while another received an honors award. He moved that the Academy provide \$35 for first place and \$30 for second place winners. The motion was seconded and will be voted on at the Second Business Meeting. He stated that a mailout to schools had produced increased participation and should be continued. To allow this, he moved that support for postage in the amount of \$28.60 be provided by the Academy. The motion was seconded and will be voted on at the Second Business Meeting.

President Heidt reported for Tom Palko, Director of the Arkansas Junior Science and Humanities Symposium that the symposium is doing well and is quite successful this year.

Ed Bacon, Chairman of the Constitution Committee, reported on recommended changes to the constitution. The report of this committee follows:

The members of the Constitution Committee of the Arkansas Academy of Science were E. J. Bacon (Chairman), Bill Evans, and Paul Sharrah. The Committee recommends the following changes in the Constitution and By-Laws of AAS:

I. CONSTITUTION CHANGES RECOMMENDED:

1. CHANGE ARTICLE II which now reads:

ARTICLE II: OBJECTS

The objects of this organization shall be the promotion and diffusion of knowledge of the fields of Science and unification of these interests in the State.

TO READ:

ARTICLE II: OBJECTIVES

The objectives of this organization shall be the promotion and diffusion of knowledge of the fields of science and unification of these interests in the State.

2. CHANGE ARTICLE III SECTION I which now reads:

SECTION 1. Persons and organizations interested in the objects of this academy may join on the recommendation of the membership committee and payment of dues.

TO READ:

SECTION 1. Persons and organizations interested in the objectives of this academy may join by the payment of dues.

II. BY-LAWS CHANGES RECOMMENDED:

1. CHANGE SECTION 2 OF THE BY-LAWS which now reads:

The following committees shall be set up whenever necessary: Program, Membership, Publications, Auditing, Nominations, Local, Publicity, and Awards.

TO READ:

The following standing committees shall be established: Auditing, Awards, Biota, Constitution,

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Development, Local, Nominations, Publications, Publicity, Resolutions, and Science Education. AD HOC committees may be appointed by the President. The make-up, duties, and duration of service for members of each standing committee shall be determined by the Executive Committee with members for vacancies to be appointed by the President.

2. **CHANGE SENTENCE 2 OF SECTION 5 OF THE BY-LAWS** which now reads:

Such ex-members may regain their membership by the regular process of election and paying of dues.

TO READ:

Such ex-members may regain their membership by the payment of dues.

3. **CHANGE SECTION 9 OF THE BY-LAWS** which now reads:

A person elected to membership within a year holds paid-up membership for the remainder of the remainder of the fiscal year.

TO READ:

A person joining the Academy during the year is entitled to membership privileges for the remainder of the fiscal year.

Dr. Bacon moved that the Academy accept the report of the Constitution Committee. The motion was seconded and will be voted on at the Second Business Meeting.

Dave Saugey, Chairman of the Nominating Committee, presented the nominees for Vice President. The nominees were Glyn Turnipseed, Arkansas Tech University, and Horace Marvin, University of Arkansas for Medical Sciences, and Ken Smith, Arkansas Natural History Commission. It was moved and seconded to close nominations and the motion passed. He also indicated that the committee nominated Jim Peck, University of Arkansas at Little Rock, for Editor to begin in 1987 but to allow one year overlap.

The Resolutions Committee will consist of Dan England and Mike Plummer.

President Heidt introduced Pat Troth of the Arkansas Science and Technology Authority.

President Heidt encouraged section chairs to keep their sections on time and to not start presentations early.

President Heidt announced the Sigma Xi breakfast at Palmeara's Restaurant on Saturday morning.

Steve Fillipek announced that there would be a short discussion of stream studies immediately after the meeting.

Leo Paulissen reported that new Biota Surveys and a checklist on birds are ready and will be available at the Second Business Meeting.

President Heidt adjourned the First Business Meeting.

SECOND BUSINESS MEETING

Gary Heidt, President, called the meeting to order with approximately 65 members present.

Walter Godwin, Secretary, moved the approval of the minutes of the Sixty-Ninth 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. Jim Fribourgh presented the following report from the Audit Committee.

The Audit Committee reviewed the attached 1985-86 Annual Financial Statement of the Academy and examined the various documentation submitted to us. We found the receipts and expenditures to be in order and the financial records to be in balance.

We also ask the Academy to join us in expressing our thanks and appreciation to Dr. Arthur A. Johnson for his services and dedication as Treasurer.

Respectfully submitted,
Arthur Fry
Hugh Johnson
James H. Fribourgh, Chairman

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.

The motion, presented by Rick McDaniel at the First Business Meeting, to allocate \$620 for editorial assistance and travel for next year was passed.

The motion, presented by John Rickett at the First Business Meeting, to allocate \$580 for the Newsletter for next year was passed.

The motion, presented by Mike Rapp at the First Business Meeting, to allocate \$200 for support of the Science Fair and \$200 for support of the Junior Academy for next year was passed.

The motion, presented by John Peck at the First Business Meeting, to allocate \$94 for the Arkansas Science Talent Search for next year was passed.

President Heidt asked for nominations from the floor for Vice President. There were no nominations so nominations were closed and ballots distributed. A count of the ballots as reported later showed that Horace Marvin had been elected Vice President. President Heidt also asked for nominations from the floor for Editor. It was moved and seconded to accept Jim Peck by acclamation. The motion passed.

The motion, presented by Ed Bacon at the First Business Meeting, to accept the report of the Constitution Committee was passed by well over the necessary three-fourths margin.

Henry Robinson, Historian, reported that this is the Seventieth Annual Meeting and the second to be held in Ouachita. The first meeting was a joint meeting with Henderson State. He repeated his call for any old pictures of past activities, officers, and other items of historical interest.

Robbin Anderson, Chairman of the Science Education Committee, reported that there has been increased activity and increased cooperation in the area of science education.

Leo Paulissen reported on the Biota Survey. Several more lists have been added bringing the total to 45. The checklists should be bound by next year. He mentioned that Doug James has a new checklist of spiders. He also reported that some progress has been made on the Endowment Fund.

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John Rickett reported on the 1987 meeting site. His report follows:

The 71st Annual Meeting of the Arkansas Academy of Science will be held at the Riverfront Hilton in North Little Rock, AR on 5 and 6 April 1987.

Due to construction and very limited parking it would be very difficult to hold the meeting on the UALR campus. The Riverfront Hilton has all needed facilities, and the convenience should be of primary interest to out-of-town guests. We will encourage as many persons as can take overnight rooms at the Riverfront Hilton because the more rooms are occupied the more accessory facilities will be made available for our use without charge. If we occupy 100 room-nights, the charge for the various section rooms and banquet facilities will be \$500, which will be covered by a much-appreciated donation from Dean Bob Franke and fees from exhibitors.

President Heidt stated that an invitation for the 1988 meeting had been extended by Arkansas Tech University. It was moved and seconded to accept the invitation. The motion passed.

Joe Jeffers, Local Arrangements Chairman reported on the Undergraduate Awards. He reported that the Undergraduate Awards had been won by:

Life Sciences: Keith R. Smith - UALR

Cyclic AMP and Cyclic GMP Phosphodiesterase Activity During Sclerotization of the Myxomycete *Physarum flavicomum*

Physical Sciences: Monica L. Wooley - UAPB

Development of a Sensitive Method to Measure Aflatoxin B1, B2, G1, and G2 Using Electrochemistry

Jeffers also indicated that a group picture would be taken after the meeting and that copies of the picture would be available.

Dan England, Chairman of the Resolutions Committee, moved the adoption of the following resolution.

It resolved:

The members of the Arkansas Academy of Science express their gratitude to Ouachita Baptist University at Arkadelphia for hosting the 1986 meeting of the Arkansas Academy of Science. The Academy congratulates the University in attaining its one-hundredth year of service, and is particularly appreciative of the opportunity to meet on its campus during this centennial year. In particular, thanks is given to members of the local arrangements committee: Joe Jeffers, Chairman; Mary Bolton; Richard Brown; Alton Crawley; Wayne Everett; Glenn Good; Brian Harmon; Steve Hennigin; Alex Nisbet; Joe Nix; Victor Oliver; Judee Royston; Kenneth Sandifer; and to numerous OBU students. Appreciation is expressed to all concerned who helped provide the pleasant spacious facilities and excellent banquet. Also, thanks is given to Martin Rosenberg of Smith, Kline and French Labora-

tories for his presentation on using recombinant DNA.

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: John Guise and Henry Robinson (Aquatic and Environmental Biology), Dee Palmer and Warfield Teague (Chemistry), Peggy Doris and Perry Max Johnson (Vertebrate Zoology), Paul Raines (Botany), Jimmy Bragg (Microbiology), George Harp (Invertebrate Zoology), David Straub (Biomedical), Dick Hansen (Science Education), and Clark McCarty (General).

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

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

The Academy expresses thanks and encouragement to continue to Delta Optical Instruments Company, Fisher Scientific, and Advanced Scientific, Inc. for their exhibition booths at the meeting.

The Academy recognizes the dedicated and thorough work of Ed Bacon, Chairman; William Evans and Paul Sharrah in reviewing the Constitution and Bylaws of the Academy. Also appreciation is tendered to Leo Paulissen for his work on the Endowment Fund. Joe Jeffers, Chairman; Walt Godwin; Leo Bowman; Rick McDaniel; Stan Trauth and Mike Rapp are thanked for their efforts on the Student Awards Committee as well as Collis Geren, Chairman; David Saughey and Jim Daly for their work on the Nominating Committee.

The motion was seconded and passed.

President Heidt asked for any other business and David Saughey stated that the Arkansas Herpetological Society invites all interested persons.

President Heidt expressed his pleasure at serving as President. He also emphasized the need for more Life Members. Finally he mentioned the Endowment Fund and the need for continuing support for it.

President Heidt passed the gavel to President-Elect Ed Bacon. President Bacon presented Past-President Heidt with a plaque in appreciation for his year of service.

It was moved, seconded and passed to adjourn the meeting.

Respectfully submitted,

Walter E. Godwin
Secretary

REGULAR MEMBERS

Robert T. Allen	University of Arkansas
John T. Annulis	University of Arkansas at Monticello
Michael L. Armstrong	Arkansas Game & Fish Commission
Lanny Asklock	University of Arkansas Cooperative Extension Service
Dennis A. Baeyens	University of Arkansas at Little Rock
Claudia F. Bailey	University of Arkansas
Gary A. Bannon	University of Arkansas for Medical Sciences
Adelphia W. Basford	Henderson State University (Retired)
Ralva Bass	University of Central Arkansas
John K. Beadles	Arkansas State University

Laurence J. Boucher	Arkansas State University
William R. Bowen	University of Arkansas at Little Rock
Robert E. Bowling	University of Arkansas for Medical Sciences
Leo H. Bowman	Arkansas Tech University
Jimmy D. Bragg	Henderson State University
John F. Bridgman	University of the Ozarks
Arthur V. Brown	University of Arkansas
Kristine B. Brown	West Fork High School
Richard H. Brown	Ouachita Baptist University
Charles T. Bryant	U. S. Geological Survey

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Neal D. Buffaloe	University of Central Arkansas	Frank Meriwether	University of Arkansas at Pine Bluff
Bruce L. Carr	University of Arkansas	Lawrence A. Wink	Arkansas State University
Stanley L. Chapman	University of Arkansas Cooperative Extension Service	Richard S. Mitchell	Arkansas State University
Joseph M. Clark		David L. Monts	University of Arkansas
Maxine B. Clark		Luis Morales	Arkansas State University
Frances E. Clayton	University of Arkansas	Stephen R. Moulton II	Quachita Baptist University
Ricard A. Collins	University of Central Arkansas	Joe Mix	University of Arkansas for Medical Sciences
David R. Cross	University of Arkansas at Little Rock	Timothy J. O'Brien	Arkansas Tech University
Donald Culwell	University of Central Arkansas	Tom Palko	Henderson State University
Fred Dalske	University of Central Arkansas	Bryan D. Palmer	University of Arkansas
James J. Daly	University of Arkansas for Medical Sciences	Leo J. Paulissen	University of Oklahoma
James T. Daniels	SAU - Tech	Mark A. Paulissen	University of Arkansas for Medical Sciences
Stanley N. David	Arkansas State University	John E. Pauly	University of Arkansas at Pine Bluff
Leo L. Davies	University of Arkansas for Medical Sciences	Carol J. Peck	University of Arkansas for Medical Sciences
David Carson Davis	Southern Arkansas University	Ernest J. Peck	University of Arkansas at Little Rock
Don C. De Luca	University of Arkansas for Medical Sciences	James H. Peck	University of Central Arkansas
Larry W. Dorman	University of Arkansas	John D. Peck	U. S. Geological Survey
Peggy Rea Dorris	Henderson State University	James C. Peterson	University of Arkansas Cooperative Extension Service
Lee Doyle	University of Arkansas for Medical Sciences	Robert A. Pierce	Harding University
Benjamin T. Duhart	University of Arkansas at Pine Bluff	Michael V. Plummer	University of Arkansas
Danny J. Ebert	U. S. Forest Service	Paul J. Polechla, Jr.	University of Arkansas
Rudolph J. Eichenberger	Southern Arkansas University	Thonlot T. Prabhakaran	University of Arkansas
Hudson B. Eldridge	University of Central Arkansas	Charles R. Preston	University of Arkansas at Little Rock
Daniel R. England	Southern Arkansas University	Alan D. Price	Arkansas Department of Pollution Control & Ecology
Claude E. Epperson	University of Arkansas for Medical Sciences	Denver L. Prince	University of Central Arkansas
Wilbur W. Everett	Quachita Baptist University	Paul L. Raines	Arkansas State University
Dale Ferguson	University of Arkansas at Little Rock	Diane Randall	Jacksonville Wastewater Utility
Steve Filipek	Arkansas Game & Fish Commission	Michael W. Rapp	University of Central Arkansas
Sheldon Fitzpatrick	University of Arkansas at Pine Bluff	Ruby S. Reynolds	University of the Ozarks
E. P. Floyd	U. S. Public Health Service (Retired)	Edward L. Richards	Arkansas State University
Thomas L. Foti	Arkansas Natural History Commission	Rex Roberg	University of Arkansas
John Gliese	Arkansas Department of Pollution Control & Ecology	Bryce Roberson	Harding University
Walter E. Godwin	University of Arkansas at Monticello	Peggy Root	Southern Arkansas University
Glynn Good	Quachita Baptist University	Perry C. Rothrock, III	University of Arkansas for Medical Sciences
Rachel Goss	University of Arkansas at Little Rock	S. Jeffrey Scott	U. S. Forest Service
D. Leroy Gray	Cooperative Extension Service	John A. Sealander	University of Arkansas
Gaston Griggs	John Brown University	Larry Seward	John Brown University
William C. Guest	University of Arkansas	Alli U. Shaikh	University of Arkansas at Little Rock
Bruce Hagard	Hendrix College	Bill Shepard	Arkansas Natural History Commission
Earl L. Hanebrink	Arkansas State University	Samuel Siegel	University of Arkansas
Richard H. Hanson	University of Arkansas at Little Rock	Dewey H. Sifford	Arkansas State University
George L. Harp	Arkansas State University	Farli Simpson	University of Central Arkansas
Jarvis Harper	Alcoa	Kenneth L. Smith	Arkansas Natural History Commission
John L. Harris	Arkansas Highway & Transportation Department	Robin M. Smith	Arkansas State University
Calvin J. Haskins	Arkansas Game & Fish Commission	Roy J. Smith, Jr.	U. S. Department of Agriculture
Darrell Heath	University of Arkansas at Little Rock	Clifford S. Snyder	University of Arkansas Cooperative Extension Service
Garry Heldt	University of Arkansas at Little Rock	Bernard Soloff	J. L. M. Memorial Veterans Hospital
Mustafa Hemmati	Arkansas Tech University	Frederick W. Spiegel	University of Arkansas
Craig Hilburn	Arkansas Game & Fish Commission	Carl R. Stapleton	University of Arkansas at Little Rock
Larry Hinck	Arkansas State University	Marcus L. Steele	Henderson State University
Kathleen L. Hornberger	University of Arkansas	Karl David Straub	University of Arkansas for Medical Sciences
Jim Huey	University of Arkansas at Monticello	Joseph Sylvester	U. S. Fish & Wildlife Service
Joe Jeffers	Quachita Baptist University	Sandy Tedder	University of Arkansas
Donn T. Johnson	Southern Arkansas University	Lyell Thompson	University of Arkansas
Hugh A. Johnson	Nettleton High School	Dan Timmermann	Arkansas State University
Michael I. Johnson	Arkansas Department of Pollution Control & Ecology	Les Torrans	University of Arkansas at Pine Bluff
Jay Justice	University of Arkansas at Little Rock	Gary Tucker	Arkansas Tech University
Alyan A. Karlin	The Ross Foundation	Denzil L. Tullis	University of Arkansas at Little Rock
Mark Karnes	University of Arkansas at Little Rock	Renn Tumilson	Oklahoma State University
Phillip L. Kehler	University of Arkansas	Glyn Turnipseed	Arkansas Tech University
Raj V. Kilambi	Arkansas Tech University	Tito Viswanathan	University of Arkansas at Little Rock
Scott Kirkconnell	University of Arkansas at Little Rock	David L. Vosburg	Arkansas State University
Maurice G. Klove	University of Arkansas at Monticello	Richard B. Walker	University of Arkansas at Pine Bluff
Richard Klunder	National Center for Toxicological Research	Robert L. Watson	University of Arkansas at Little Rock
Walter A. Korfmacher	University of Arkansas	Fred H. Watson, Jr.	University of Arkansas for Medical Sciences
Timothy A. Kral	University of Arkansas (Retired)	Frederick J. Weber	University of Arkansas
Marie L. Lavallard	Arkansas State University	G. J. Weidemann	Arkansas Highway & Transportation Department
Norman Lavers	Arkansas State University	Wendy Welch	University of Arkansas for Medical Sciences
Linda A. Lee	University of Arkansas at Little Rock	David E. Wennerstrom	University of Arkansas at Monticello
Jerry L. Linstaedter	University of Arkansas for Medical Sciences	Robert W. Wiley	Arkansas State University
Thomas J. Lynch	University of Arkansas for Medical Sciences	J. D. Wilhide	University of Arkansas at Pine Bluff
All Mansouri	University of Arkansas for Medical Sciences	William M. Willingham	Harding University
Horace N. Marvin	Dallas VA Medical Center	Edmond W. Willson, Jr.	University of Arkansas at Little Rock
Chris T. McAllister	Quachita Baptist University	Ralph J. Wolf	University of Central Arkansas
Clark W. McCarty	University of Arkansas	Robert D. Wright	University of Arkansas at Monticello
J. S. McConnell	University of Arkansas at Pine Bluff	Jimmie D. Yeiser	
Rose McConnell	Arkansas Tech University		
Harlan McMillan			

ASSOCIATE MEMBERS

Bruce A. Barnes	Henderson State University	Susan Kulp	John Brown University
Jon E. Barry	University of Arkansas at Little Rock	Roger L. Larfarlette	University of Arkansas at Little Rock
Devinder S. Bhatia	Arkansas Tech University	Michael D. Massey	University of Arkansas at Pine Bluff
Michael L. Brown	University of Arkansas at Monticello	Hal Palmer	University of Arkansas
Calvin Cotton	University of Arkansas at Little Rock	Linda Parks	University of Arkansas at Little Rock
Tappi Dixon	Henderson State University	Deborah Anne Rush	University of Arkansas at Little Rock
Kevin D. Golden	University of Arkansas	Lisa Schreckenhofer	University of Arkansas at Monticello (Retired)
William Brian Harrod	University of Arkansas at Little Rock	Elwood B. Shade	Henderson State University
Kathy M. Holobar		Terry L. Sligh	

SUSTAINING MEMBERS

Harvey E. Barton	Arkansas State University	V. Rick McDaniel	Arkansas State University
Judith A. Bean	University of Central Arkansas	Alex R. Nisbet	Quachita Baptist University
Gary Burtle	University of Arkansas at Pine Bluff	Lance Peacock	The Arkansas Nature Conservancy
David Chittenden	Arkansas State University	John Rickett	University of Arkansas at Little Rock
Edward E. Dale, Jr.	University of Arkansas	Lothar Schaffer	University of Arkansas
Arthur Fry	University of Arkansas	Paul C. Sharrah	Hendrix College
P. M. Johnston	Henderson State University	John E. Stuckey	University of Arkansas at Monticello
Daniel L. Marsh	University of Arkansas for Medical Sciences	Eric Sandell	Veterans Administration Medical Center
Daniel M. Mathews		James O. Wear	

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SPONSORING MEMBERS

Edmond J. Bacon
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Collis R. Geren
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University of Arkansas
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University of Arkansas at Monticello

Arthur A. Johnson
Robert T. Kirkwood
Dorothy Moffett
Richard K. Spealrs, Jr.

Hendrix College
University of Central Arkansas - Retired
Citadel Research Foundation
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