

1987

71st Annual Meeting, 1987. Secretary's Report and Financial Statement

Academy Editors

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PROCEEDINGS ARKANSAS ACADEMY OF SCIENCE

Volume 41

1987

	Edmond Bacon President	
Gary Tucker President-Elect	Horace Marvin & Dave Chittenden Vice-President	Walter Godwin Secretary
Arthur Johnson Treasurer	James Fribourgh NAAS Delegate	Henry Robison Historian

Secretary's Report

MINUTES OF THE SEVENTY-FIRST ANNUAL MEETING, 3-4 APRIL 1987

FIRST BUSINESS MEETING

Ed Bacon, President, called the meeting to order.

John Rickett, Local Arrangements Chairman, introduced Dr. Joel Anderson of the University of Arkansas at Little Rock, who welcomed the Academy on behalf of UALR and the Capitol city. Rickett made several announcements. He asked that the session chairpersons try to stay on time. He also asked the presenters to be sure that slides are available to the projectionist before the session.

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

Art Johnson, Treasurer, presented the Financial Report. He briefly discussed the report and indicated that the Academy is in good financial shape. He indicated that the cost of the *Proceedings* is high but that it will be covered easily. He presented the following motion:

Mr. President, I move that the Academy raise the dues for regular members to \$15, for sustaining members to \$20, and for sponsoring members to \$30 while leaving the Associate dues and Life memberships the same.

The motion was seconded and will be voted on at the Second Business Meeting. An Audit Committee consisting of Bob Wiley (Chairman), Jim Fribourgh, and Dave Chittenden will examine the report. A copy of the report follows.

★ ★ ★ FINANCIAL STATEMENT ★ ★ ★

Statement Approved by Audit April 6, 1985

First State Bank and Trust Co., Conway, AR	
TOTAL Account	5,254.93
Certificates of Deposit	
Security Savings and Loan Association of Conway	
Certificate of Deposit(C 01-70048490)	1,115.10
First State Bank and Trust Co., Conway(0007-769-4)	2,266.01
TOTAL FUNDS, April 5, 1986	\$ 8,636.04

SUMMARY

(March 12, 1986 to March 15, 1987)

Balance Approved by Audit on April 5, 1986		\$ 8,636.04
Total Income(Page 2)	13,276.41	
Total Expenses(Page 3)	11,417.00	
Balance for the Year	\$ 1,859.41	\$ 1,859.41
FUNDS ON HAND AS OF MARCH 15, 1987		\$ 10,495.45

DISTRIBUTION OF ACCOUNTS

TOTAL Account		\$ 5,686.07
Certificates of Deposit		
First State Bank and Trust Co., Conway(0007-769-4)		2,501.26
Security Savings and Loan Assn., Conway(C 01-70048490)		1,230.87
First National Bank of Conway(78940)		1,077.25
		\$ 10,495.45

INCOME: March 12, 1986 to March 15, 1987

1. ANNUAL MEETING: OBU APRIL 4-5, 1986		\$ 4,225.00
2. INDIVIDUAL MEMBERSHIPS		
a. Regular(115)	\$ 1,150.00	
b. Sustaining(12)	190.00	
c. Sponsoring(15)	900.00	
d. Life(3)	600.00	
d. Associate(2)	10.00	
Total	2,850.00	2,850.00
3. INSTITUTIONAL MEMBERSHIPS(22)		1,100.00
4. PROCEEDINGS, Subscriptions		284.50
5. PROCEEDINGS, MISC. SALES		935.10
6. PROCEEDINGS, Page Charges		2,680.00
7. BIOTA RECEIPTS		217.65
7. INTEREST		601.22
a. First State Bank and Trust Co.(Conway)		
1) TOTAL Account	250.20	
2) CD(0007-769-4)	235.25	
b. Security Savings and Loan Assn.(Conway) CD(C-01-70048490)	115.77	
8. ENDOWMENT		360.00
9. CHECK #197 NOT REDEEMED IN 1985-86 YEAR		22.94

TOTAL INCOME \$ 13,276.41

EXPENSES: March 12, 1986 to March 15, 1987

1. PROCEEDINGS: Publication and Distribution		
a. Phillips Litho Co., Inc.(#213)	\$7,856.20	
b. V. Rick McDaniel(#210)	107.31	
c. Mary Ann McDaniel(#201)	500.00	
Total	8,463.51	\$ 8,463.51
2. AWARDS		
a. Keitha R. Smith(#202)		50.00

Secretary's Report

b. Monica L. Voolley(#203)	50.00	
c. Todd Harrison Rider(#207)	35.00	
d. Charles Eldon King(#208)	30.00	
e. Arkansas State Science Fair(#212)	200.00	
f. John D. Peck(#206)	28.60	
g. Junior Academy of Science(#215)	200.00	
Total	593.60	593.60
3. MEETING EXPENSES(OBU STATEMENT)		1,452.67
4. OPERATING COSTS		
a. President's Office(#209)	12.00	
b. Secretary's Office-Postage(#211, #214)	250.00	
c. Treasurer's Office-Supplies(#222)	20.74	
Total	282.74	282.74
5. NEWSLETTER		
a. Copy Cat(#216)	312.32	
b. UALR Biology Department(#217, 220)	88.92	
c. Gloria's Print and Office Supply(#219)	184.64	
Total	585.88	585.88
6. DUES-National Association of Academies of Science		28.60
7. MISCELLANEOUS(#220)		10.00
TOTAL EXPENSES		\$ 11,417.00

Respectfully Submitted

Arthur A. Johnson, Treasurer

Meeting: April 3-4, 1987
Riverfront Hilton, North Little Rock, Arkansas--Sponsored by UALR

Rick McDaniel, Editor of the *Proceedings*, was not present so no report was presented on this year's edition. James Peck, the in-coming Editor, reminded presenters that papers should be in proper journal format. He also reminded section chairs be sure to collect papers at the sessions and to turn in those papers. 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 41 of the *Proceedings*.

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

John Rickett, Editor of the Newsletter, indicated that 1327 copies of the fall Newsletter and 347 copies of the spring Newsletter were distributed. He stated that he needs institutional representatives from some institutions to gather news for the spring Newsletter. 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.

Art Johnson reported for Paul Krause concerning the Arkansas Junior Academy of Science. He discussed a letter from Krause indicating the need for financial support. He moved that the Academy appropriate the sum of \$200 to support the Arkansas Junior Academy of Science. The motion was seconded and will be voted on at the Second Business Meeting.

Art Johnson also reported for Mike Rapp, Director of the Arkansas Science Fair Association, reported on the Science Fair. He moved that the Academy appropriate \$200 to be given to the Arkansas Science Fair Association to support its activities. The motion was seconded and will be voted on at the Second Business Meeting. He reported on the success of the regional and state fairs. On behalf of Mike Rapp, he moved that appreciation be expressed to the regional directors. The motion was seconded. It was moved to amend the motion to include appreciation to Mike Rapp also. The amendment was seconded and passed. The final motion reads:

The Arkansas Academy of Science expresses its commendation to the following people for the many hours of hard work and planning

that they and others have given. This work has provided an opportunity to encourage and recognize the work of three to four hundred junior and senior high students and teachers.

Michael W. Rapp, State Director
Bonnie Moody, Central Region
Veryl Board, North Central Region
Mark Draganjac and Joseph McGrath, Northeast Region
Les Howick, Northwest Region
Marc Steele, South Central Region
Gordon Culpepper, Southeast Region
Rudy Eichenberger, Southwest Region

The motion 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 36th Annual Arkansas Science Talent Search 1986-87, held in conjunction with the 46th Westinghouse Science Talent Search.

First Place

Kyle James Weld
P.O. Box 313
Fisher, AR 72429

School: Weiner High School
Teacher: Mr. Hillard Clark
Project: Isolation of Bacteria that Modify Antibiotics

Second Place

Seth Mingea Lowrey
P.O. Box 153
Sheridan, AR 72150

School: Sheridan High School
Teacher: Ms. Mary Frances Harper
Project: Excursions into Experimental Geometry

Third Place

Deidre Michelle Schuchman
Route 1, Box 191
Ravenden Springs, AR

School: Oak Ridge Central High School
Teacher: Ms. Angelyn Baldwin
Project: The Presence or Absence of Auditory Stimuli: Their Effect on Cardiovascular and Neuromuscular Functions

He moved that the Academy appropriate \$120 to be used by the Arkansas Science Talent Search. The motion was seconded and will be voted on at the Second Business Meeting.

Tom Palko, Director of the Arkansas Junior Science and Humanities Symposium, reported that the Symposium had 109 papers submitted. Fifteen of these were read and five of these were awarded trips to the National Symposium and four were awarded scholarships. He stated that the Symposium does not need financial support. However, he requested assistance from scientists at the various institutions in identifying students doing summer research.

Henry Robison, Historian, reported that this is the 71st Annual Meeting and that it is the 5th time the Academy has been hosted by the University of Arkansas at Little Rock or its predecessors.

Eric Sundell, Chairman of the Nominating Committee, presented the nominees for Vice President. The nominees were Leo Bowman, Arkansas Tech University, and Dave Chittenden, Arkansas State University. An additional nomination of Tom Palko, Arkansas Tech University was made from the floor. It was moved and seconded to close nominations and the motion passed. He also indicated that the committee

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nominated Robert Wiley, University of Arkansas at Monticello, for Treasurer. No other nominations were made and it was moved and seconded to close nominations. The motion passed.

Leo Paulissen reported on the Biota Survey. Five new checklists are available including ferns, birds and fishes. A combined list is also now available and will be available tomorrow. He expressed appreciation for a \$200 contribution.

Robbin Anderson, Chairman of the Science Education Committee, indicated that a report of committee activities was available and discussed some areas of interest. He also asked those present who might be interested in activities of the committee to so indicate.

President Bacon asked for other Committee reports and there were none.

The Resolutions Committee will consist of Joe Guenter and Bob Watson.

President Bacon announced that the 1988 meeting will be at Arkansas Tech University and indicated that a site for the 1989 meeting is needed.

President Bacon asked for old business and none was presented.

President Bacon asked for new business and none was presented.

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

President Bacon announced a Development Committee meeting for 4 P.M.

President Bacon adjourned the First Business Meeting.

SECOND BUSINESS MEETING

Ed Bacon, President, called the meeting to order.

Walter Godwin, Secretary, moved the approval of the minutes of the Seventieth Annual Meeting as distributed with a correction in the spelling of the name Johnston. The motion was seconded and passed.

Erie Sundell, Chairman of the Nominating Committee, reported that the nominees for Vice President were Leo Bowman, Dave Chittenden, and Tom Palko. Ballots were distributed, collected and counted. He also reported that the only nominee for Treasurer was Robert Wiley. It was moved and seconded to accept Wiley as Treasurer by acclamation. The motion passed.

Art Johnson, Treasurer, distributed additional copies of the Treasurer's report and discussed it briefly. He moved that the Treasurer's Report be approved. The motion was seconded. Robert Wiley, Chairman of the Audit Committee, presented the following report from the Audit Committee.

The Audit Committee reviewed the attached 1986-87 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 for the past five years.

Respectfully submitted,
Robert W. Wiley, Chairman
Dave Chittenden
James H. Fribourgh

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 from the First Business Meeting to increase dues was restated. After some discussion, it was passed unanimously.

A report was presented on the results of the election for Vice President. A runoff was required between Dave Chittenden and Tom Palko. Ballots were again distributed, collected and counted.

Rick McDaniel, Editor of the *Proceedings*, reported that the *Proceedings* were not ready. He stated that he hoped that they would be ready by the end of the summer or at least by early fall. There will be fewer pages this year and thus less cost. The motion, presented at the First Business Meeting, to allocate \$620 for editorial assistance and travel for next year was passed.

John Rickett, Editor of the Newsletter, briefly repeated his discussion of the Newsletter. His motion, presented at the First Business Meeting, to allocate \$650 for the Newsletter for next year was passed.

Henry Robison, Historian, repeated his report from the First Business Meeting.

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

The motion, presented at the First Business Meeting, to allocate \$200 for support of the State Science Fair Association for next year was passed.

The motion, presented at the First Business Meeting, to allocate \$200 concerning commendation for the State and Regional Directors of the State Science Fair was passed.

John Peck again reported for the Arkansas Science Talent Search stating that 3 students received national honors and reporting the state winners. The motion he presented at the First Business Meeting to allocate \$120 for the Arkansas Science Talent Search for next year was passed.

Tom Palko, Director of the Arkansas Junior Science and Humanities Symposium, again requested assistance from memberships in aiding students in projects and identifying students who have performed projects which might be presented.

Leo Paulissen reported for the Development Committee. We have reached \$1000 in the Dwight Moore Fund and the money is now in a CD. Additional monies in the amount of \$600 have already been collected and he encouraged additional contributions.

Leo Paulissen also reported on the Biota Survey. Five new lists have been added including birds and vertebrates. A consolidated checklist is now available and all lists will be available after the meeting.

Phillip Kehler, Chairman of the Undergraduate Awards Committee acknowledged the Judges who were Dick Hanson, UALR, and Alex Nisbet, OBU, for Physical Science and John Bridgeman, U of O, Peggy Rae Dorris, HUS, and Neal Buffalo, UCA, for Life Science. He reported that the Undergraduate Awards had been won by:

Physical Sciences: Hal Palmer - UALR
Thermal Analysis of Whey-Based Thermosetting Resins Using

Secretary's Report

Differential Scanning Calorimetry

Life Sciences: Belinda Raybon - UALR
Repopulation by the Prairie Vole (*Microtus ochrogaster*) in an
Accidentally Burned Field in Central Arkansas

Results of the runoff election for Vice President indicated that Dave Chittenden had been elected.

Joe Guenter, Chairman of the Resolutions Committee, on behalf of himself and Bob Watson moved the adoption of the following resolution.

Be it resolved:

The members of the Arkansas Academy of Science express their gratitude to the Riverfront Hilton and the University of Arkansas at Little Rock College of Sciences for hosting the 1986 meeting of the Arkansas Academy of Science and to Vice President and Provost Joel Anderson for his warm welcome. Special thanks are due to the Local Arrangements Committee: John Rickett (Chairman), Jim Fribourgh, Dick Prior, and Gary Heidt for arranging an excellent meeting. We appreciate the interesting (if unsettling) lecture on earthquakes presented by Arch Johnston (Memphis State University).

The Academy appreciates the efforts of the various section chairpersons: Alan Price and George Harp (Aquatic/Environmental), Thomas Lynch (Biomedical), Gary Tucker (Botany), Joe Jeffers and Ralph Wolfe (Chemistry), Phillip Kehler (Geology), Dale Ferguson (Microbiology), Joe Guenter (Physics), Robbin Anderson (Science Education Symposium), Leo Bowman (Science Education), and David Saugey (Zoology).

The Academy thanks the judges for the student research papers: Dick Hanson and Alex Nisbet (physical science papers) and Peggy Rae Dorris, John Bridgeman, and Neal Buffalo (life science papers).

The Academy also expresses gratitude to the various directors of the science activities supported by the Academy: Robbin Anderson (Science Education Committee), Mike

Rapp (Director of the Arkansas Science and Engineering Fair), Tom Palko (Director of the Junior Science and Humanities Symposium), John Peck (Arkansas Science Talent Search), and Paul Krause (Arkansas Junior Academy of Science).

The Academy is grateful for the service of the officers of the Academy for 1986-1987: Edmond Bacon (President), Gary Tucker (President-Elect), Horace Marvin (Vice President), Walter Godwin (Secretary), Art Johnson (Treasurer), Rick McDaniel (Editor of the *Proceedings*), John Rickett (Editor of the Newsletter), Gary Heidt (Past President) and Henry Robison (Historian). The Academy especially appreciates the dedication and services of Art Johnson (Treasurer) and Rick McDaniel (Editor of the *Proceedings*) for the past five years.

The Academy members express their gratitude for the most enjoyable "Happy Hour" hosted by Jim Fribourgh and John Pauley and provided by UALR and UAMS.

The Academy appreciates the exhibits provided by Advanced Scientific and their representative David Brock.

Thanks is extended to Calvin Cotton for making the plaques for retiring officers and lettering the student research award certificates.

The Academy recognizes the dedicated and thorough work of the committee members and chairpersons: Leo Paulissen (biota Committee and Development Committee), Robbin Anderson (Science Education Committee), Jim Daly (Ad Hoc Committee on Sigma Xi Graduate Awards), Gary Tucker (Publicity Committee), Eric Sundell (Nominations Committee), Joe Guenter (Resolutions Committee), Rick McDaniel (Publications Committee), Robert Franke (Ad Hoc Committee on Arkansas Science and Technology Authority), Bob Wiley (Auditing Committee), Gary Heidt (Constitution Committee), and Phil Kehler (Awards Committee).

The motion was seconded and passed.

David Saugey presented a U.S. Forest Service Award to Darrel Heath for volunteer work. The award involved a Certificate of Appreciation for 1000 hours of service.

President Bacon presented a plaque in appreciation to Art Johnson who made a few brief comments. President Bacon also presented a plaque in appreciation to Rick McDaniel who also made a few brief comments. President Bacon recognized Calvin Cotton as creator of the plaques.

John Rickett expressed thanks to all the members for coming to the meeting and to the committees and students who worked on the meeting.

President Bacon read proclamations from the Governor concerning National Science Week for May of last year and for the next week for this year.

President Bacon called for old business and none was presented.

President Bacon called for new business and none was presented.

President Bacon announced that the meeting for next year will be at Arkansas Tech. He stated that there had been interest in the meeting for 1989 but no firm commitment had been made.

President Bacon called on President-Elect Gary Tucker and passed the gavel to him. President Tucker invited all members to the Arkansas Tech campus for next year's meeting. President Tucker presented Past President Bacon with a plaque in appreciation for his year of service. Bacon thanked the committees again for their work.

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

Respectfully submitted,

Walter E. Godwin
Secretary

Arkansas Academy of Science

REGULAR MEMBERS

John W. Ahlen	Arkansas Science & Technology Authority	Richard Klusender	University of Arkansas at Monticello
Syed N. Aljaz	University of Arkansas at Pine Bluff	Scott S. Knight	U. S. Department of Agriculture
Stilke Mufnagel Allen	Hendrix College	Robert G. Knox	University of North Carolina
Neil T. Allison	University of Arkansas	Roger E. Kospe II	University of Arkansas
John T. Annulis	University of Arkansas at Monticello	C. K. Koltman	
Michael L. Armstrong	Arkansas Game & Fish Commission	Randall A. Kopper	Hendrix College
Robert K. Bacon	University of Arkansas	Timothy A. Kral	University of Arkansas
Sara Mills Barnett	Texasarkana High School	Jack C. Krete	Fayetteville Public Schools
Henry Barwood	Arkansas Mining Institute	Marie L. Lavallard	University of Arkansas (Retired)
Adelphia M. Basford	Henderson State University (Retired)	Norman Lavers	Arkansas State University
John K. Beadles	Arkansas State University	Kwang Lee	University of Arkansas at Pine Bluff
Helen Benes	University of Arkansas for Medical Sciences	Jerry L. Linnstaedter	Arkansas State University
John B. Bennett	Arkansas State University	A. N. Ludwig	U. S. Geological Survey
Ann Marie Benson	University of Arkansas for Medical Sciences	Thomas J. Lynch	University of Arkansas at Little Rock
Veryl V. Board	Arkansas College	All Mansouri	University of Arkansas for Medical Sciences
Laurence J. Boucher	Arkansas State University	Daniel L. Marsh	Henderson State University
William R. Bowen	University of Arkansas at Little Rock	Chris T. McAllister	Dallas VA Medical Center
Robert E. Bowling	University of Arkansas for Medical Sciences	William H. McArthur	University of Arkansas at Pine Bluff
Leo H. Bowman	Arkansas Tech University	Nancy Glover McCartney	University of Arkansas
Jimmy D. Bragg	Henderson State University	Clark W. McCarty	Quachita Baptist University
John F. Bridgman	University of the Ozarks	Rose McConnell	University of Arkansas at Pine Bluff
Arthur Brown	University of Arkansas	Dennis W. McMasters	Henderson State University
Neal D. Bufaloe	University of Central Arkansas	Harlan McMillan	Arkansas Tech University
Gary Burtie	University of Arkansas at Pine Bluff	Lawrence A. Mink	Arkansas State University
Kay Cargill	University of Arkansas	Richard S. Mitchell	Arkansas State University
Robert Carlus	Arkansas College	Jewel E. Moore	University of Central Arkansas (Retired)
Stanley L. Chapman	Univ. of Ark. Cooperative Extension Service	Ronald D. Moore	Arkansas Game & Fish Commission
Frances E. Clayton	University of Arkansas	Leland F. Morgans	University of Arkansas at Little Rock
Malcolm K. Cleaveland	University of Arkansas	Walter Neasbitt	Arkansas State University
Richard R. Cohoon	Arkansas Tech University	Thomas Nelson	Arkansas Tech University
Janice Lorraine Cooper	Arkansas State University	Ann H. Nichols	University of Arkansas at Little Rock
Bob W. Cowling		Joe Six	Quachita Baptist University
R. T. Cox		Kelly B. Oliver	Henderson State University
James G. Culpepper	University of Arkansas at Monticello	Derrick M. Oosterhuis	University of Arkansas
Fred Dalake	University of Central Arkansas	Tom Palko	Arkansas Tech University
James J. Daly	University of Arkansas for Medical Sciences	Bryan D. Palmer	Henderson State University
James T. Daniels	SAU - Tech	John E. Pauly	University of Arkansas for Medical Sciences
Stanley N. David	Arkansas State University	Forrest Payne	FTN Associates
David L. Davies	University of Arkansas for Medical Sciences	John D. Paek	University of Central Arkansas
Don C. De Luca	University of Arkansas for Medical Sciences	Carlos H. Pennington	USAE Waterways Experiment Station
Robert H. Dilday	Univ. of Ark. Cooperative Extension Service	James C. Peterson	U. S. Geological Survey
Ronald M. Doran	Harding University	Robert A. Pierce	Univ. of Ark. Cooperative Extension Service
Larry W. Dorman	Univ. of Ark. Cooperative Extension Service	Albert B. Pittman	Arkansas Natural History Commission
Peggy Rea Dorris	Henderson State University	Paul J. Polechla, Jr.	University of Arkansas
Marlan Douglas		Harold Pray	University of Central Arkansas
Benjamin T. Duhart	University of Arkansas at Pine Bluff	Denver L. Prince	University of Central Arkansas
Danny J. Ebert	U. S. Forest Service	Paul L. Raines	Arkansas State University
Jim Edson	University of Arkansas at Monticello	Michael W. Rapp	University of Central Arkansas
Rudolph J. Eichenberger	Southern Arkansas University	Ruby S. Reynolds	University of the Ozarks
Hudson S. Eldridge	University of Central Arkansas	Edward L. Richards	Arkansas State University
Daniel R. England	Southern Arkansas University	Feggy Root	Southern Arkansas University
Don England	Harding University	Perry C. Rothrock, III	University of Arkansas for Medical Sciences
Lawana England-Whaley		John A. Sealand	University of Arkansas
Claude E. Epperson	University of Arkansas for Medical Sciences	Frank L. Settiff	University of Arkansas at Little Rock
Steve Filipek	Arkansas Game & Fish Commission	Larry Seward	John Brown University
Sheldon Fitzpatrick	University of Arkansas at Pine Bluff	Elwood B. Shade	University of Arkansas at Monticello (Ret.)
E. P. Floyd	U. S. Public Health Service (Retired)	Bill Shepherd	Arkansas Natural History Commission
Thomas L. Fott	Arkansas Natural History Commission	Jerry Lester Shue	
Robert Franke	University of Arkansas at Little Rock	Devey H. Sifford	Arkansas State University
Joe P. Gentry	Arkansas Science & Technology Authority	Edwin B. Smith	University of Arkansas
Michael George	Arkansas State University	Keneth L. Smith	Arkansas Natural History Commission
John Glese	Arkansas Dept. of Pollution Control & Ecology	W. Grady Smith	University of Arkansas for Medical Sciences
Phillip S. Gipson	Arkansas Game & Fish Commission	Roy J. Sath, Jr.	U. S. Department of Agriculture
Mattie Glover	University of Arkansas at Pine Bluff	Clifford S. Snyder	Univ. of Ark. Cooperative Extension Service
Walter E. Godwin	University of Arkansas at Monticello	Frederick W. Spiegel	University of Arkansas
D. Leroy Gray	Univ. of Ark. Cooperative Extension Service	Joseph Sylvester	Arkansas Cooperative Fish Project
Gaston Griggs	John Brown University	Warfield Teague	Hendrix College
Tyree C. Grohman	University of Arkansas for Medical Sciences	Lyell Thompson	University of Arkansas
Hark Gross	U. of Ark. Graduate Institute of Technology	Les Torrance	University of Arkansas at Pine Bluff
William C. Guetz	University of Arkansas	Stanley E. Trauth	Arkansas State University
Michael Halter	University of Central Arkansas	Denzil L. Tullie	University of Arkansas at Little Rock
Earl L. Hanebrink	Arkansas State University	Renn Tumilson	Oklahoma State University
S. J. Hankins	Univ. of Ark. Cooperative Extension Service	Glyn Turnipseed	Arkansas Tech University
Richard H. Hanson	University of Arkansas at Little Rock	Victor Vere	Arkansas State University
James W. Hardin	University of Arkansas for Medical Sciences	George H. Wagner	University of Arkansas
George L. Harp	Arkansas State University	Richard B. Walker	University of Arkansas at Pine Bluff
John L. Harris	Arkansas Highway & Transportation Department	Robert L. Watson	University of Arkansas at Little Rock
Calvin J. Hawkins	Arkansas Game & Fish Commission	G. J. Weidemann	University of Arkansas
Roger M. Hawk	U. of Ark. Graduate Institute of Technology	Wendy Welch	Arkansas Highway & Transportation Department
Mustafa Heumati	Arkansas Tech University	David E. Wenerstrom	University of Arkansas for Medical Sciences
Jo Ann Heslip	University of Arkansas at Pine Bluff	Jon Whitesell	University of Arkansas at Little Rock
Craig Hilburn	Arkansas Game & Fish Commission	Marion C. Wicht, Jr.	Arkansas College
John R. Hodges	University of Arkansas at Little Rock	T. Bentley Wigley	University of Arkansas at Monticello
Arthur Hoyt, Jr.	University of Arkansas at Little Rock	Robert W. Willey	University of Arkansas at Monticello
Joe Jeffers	University of Central Arkansas	William M. Willingham	University of Arkansas at Pine Bluff
Hugh A. Johnson	Quachita Baptist University	Edmond W. Wilson, Jr.	Harding University
Michael I. Johnson	Southern Arkansas University	Eugene B. Wittlake	Arkansas State University
Jay Justice	Nettleton High School	Duane C. Wolf	University of Arkansas
Phillip L. Kehler	Arkansas Dept. of Pollution Control & Ecology	Robert D. Wright	University of Central Arkansas
William E. Keith	University of Arkansas at Little Rock	Dominic T. Yang	University of Arkansas at Little Rock
Rej V. Kilaabi	Arkansas Dept. of Pollution Control & Ecology	Jimmie D. Yeiser	University of Arkansas at Monticello
Scott Kirkconnell	University of Arkansas	J. Lyndal York	University of Arkansas for Medical Sciences
Maurice C. Kieve	Arkansas Tech University	David A. Young	North Arkansas Community College
	University of Arkansas at Little Rock		

ASSOCIATE MEMBERS

Jon E. Barry	University of Arkansas	Joseph Steven Stanley	University of Arkansas for Medical Sciences
John F. Dickson	University of Arkansas at Monticello	Leslie Wood	University of Arkansas
Robert Shaver			

Secretary's Report

SUSTAINING MEMBERS

Harvey E. Barton	Arkansas State University	Roland E. McDaniel	Arkansas Dept. of Pollution Control & Ecology
Judith A. Bean	University of Central Arkansas	V. Rick McDaniel	Arkansas State University
David Chittenden	Arkansas State University	Alex R. Nisbet	Ouachita Baptist University
Donald Culwell	University of Central Arkansas	Lance Pascock	The Arkansas Nature Conservancy
Edward E. Dale, Jr.	University of Arkansas	Ervin W. Powell	University of Arkansas for Medical Sciences
Lester C. Howick	University of Arkansas	John E. Stuckey	Hendrix College
F. M. Johnston	University of Arkansas	Eric Sundell	University of Arkansas at Monticello
Daniel M. Mathews	University of Arkansas for Medical Sciences	Ronald H. Winters	University of Arkansas for Medical Sciences

SPONSORING MEMBERS

Arthur Fry	University of Arkansas	Donald R. Mattison	University of Arkansas for Medical Sciences
Collis R. Geren	University of Arkansas	Dorothy Moffett	Citadel Research Foundation
John T. Gilmour	University of Arkansas	John Rickett	University of Arkansas at Little Rock
Gary A. Heidt	University of Arkansas at Little Rock	Paul C. Sharrah	University of Arkansas
Mark Karnea	The Ross Foundation	Gary Tucker	Arkansas Tech University
Ray Kinser	University of Central Arkansas	James O. Wear	Veterans Administration Medical Center
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