

1990

74th Annual Meeting, 1990. Secretary's Report and Financial Statement

Academy Editors

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PROCEEDINGS ARKANSAS ACADEMY OF SCIENCE

Volume XXXIV

1990

Dick Spears
President

Robert Watson
President-Elect

John D. Rickett
Secretary

Robert Wiley
Treasurer

NAAS Delegate

Henry Robison
Historian

Secretary's Report

MINUTES OF THE SEVENTY-THIRD ANNUAL MEETING - APRIL 1990

FIRST BUSINESS MEETING

President Spears called the meeting to order at 1245.

1. Spears called Dave Chittenden to offer welcome to Arkansas State University. Chittenden also introduced the scheduled dinner speaker, Dr. Bassam Shakhshiri. Chittenden also extended offers of assistance from the various department offices located in the building.
2. Spears called Historian, Henry Robison, to give a history of Academy of meetings on the ASU campus. The Academy met here in 1952, 1967, 1973, 1980 and 1990.
3. Spears called on the Secretary (Rickett) who presented the minutes from the 1989 Annual Meeting and asked for corrections or additions. Motion (Rickett, 2nd Rapp): To approve and accept the minutes as distributed contingent on receipt of corrections or additions. Secretary also called for corrections for his membership records. Secretary also asked any motions to be submitted in writing.
4. Spears called on the Treasurer (Wiley) who presented the financial report with some explanation. The current financial status of the Academy is judged best ever. Wiley asked authors to pay page charges as soon as possible. Discussion arose re: page charges not collected. Wiley explained the mechanism is to refuse any further manuscripts from authors who have not paid past page charges. Spears appointed an Audit Committee of Art Johnson, Tom Foti and Bill Bowen.

Dwight Moore Endowment (Heritage Federal Savings and Loan - Monticello - No. 504891 - 7.75% Interest)	1463.90
Life Membership Endowment (Heritage Federal Savings and Loan - Monticello - No. 504883.1 - 7.75% Interest)	7594.90
AAS Endowment (Heritage Federal Savings and Loan - Monticello - No. 507557 - 7.75% Interest)	6771.44
TOTAL	\$16,863.31

Respectfully Submitted,

R. Wiley

Robert W. Wiley, AAS Treasurer

Annual Meeting: 6-7 April 1990
Arkansas State University, Jonesboro, AR

Page 2. Financial Statement, Arkansas Academy of Science,
20 March 1990

INCOME: 20 March 1989 to 20 March 1990

1. INDIVIDUAL MEMBERSHIPS			
a. Regular (167)	2505.00		
b. Sustaining (20)	440.00		
c. Sponsoring (3)	90.00		
d. Life (17)	1800.00		
e. Associate (6)	30.00		
Total	4865.00	4865.00	
2. INSTITUTIONAL MEMBERSHIPS (17)			
			1700.00
3. PROCEEDINGS, LIBRARY SUBSCRIPTIONS			
			681.00
4. PROCEEDINGS, MISC. SALES (UAF)			
			3558.94
5. PROCEEDINGS, PAGE CHARGES			
			3447.50
6. ANNUAL MEETING: UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES, 7-8 APRIL 1989			
			772.15
7. INTEREST			
a. Interest Bearing Checking Account	101.99		
b. Dwight Moore Endowment	95.84		
c. Life Membership Endowment	303.92		
d. AAS Endowment	190.52		
Total	692.27	692.27	
8. ENDOWMENT DONATIONS			
a. Dwight Moore Endowment	50.00		
b. AAS Endowment - Unrestricted	55.00		
	105.00	105.00	
TOTAL INCOME			
			\$15,821.86

**ARKANSAS ACADEMY OF SCIENCE
ANNUAL FINANCIAL STATEMENT**

(20 MARCH 1989 TO 20 MARCH 1990)

Balance Approved by Audit on 8 April 1989		\$9980.48
Total Income (Page 2)	15,821.86	
Total Expenses (Page 3)	- 8,939.03	
Balance for the Year	6,882.83	6882.83
TOTAL FUNDS AS OF 20 MARCH 1990		\$16,863.31

DISTRIBUTION OF ACCOUNTS

Interest Bearing Checking Account (Union Bank and Trust Co., Monticello, AR)	1033.07	
Certificates of Deposit		

Arkansas Academy of Science

Page 3. Financial Statement, Arkansas Academy of Science,
20 March 1990

EXPENSES: 20 March 1989 to 20 March 1990

1. AWARDS			
a. Bryant Turbeville (#536)	25.00		
b. D. K. Cartwright (#539)	25.00		
c. Anders Amelin (#540)	50.00		
d. John D. Peck, Plaque - Arkansas Science Talent Search (#541)	43.58		
e. Arkansas Junior Academy of Science (#537)	250.00		
f. Arkansas Science Fair Association (#536)	200.00		
Total	593.58	593.58	
2. PROCEEDINGS			
a. Phillips Litho (Vol. 42) (#533)	7210.15		
b. Robin Matthews, Editorial Consultant Vol. 42 (#531)	500.00		
Total	7710.15	7710.15	
3. OFFICE EXPENSES			
a. Secretary's Office			
Walt Godwin (#543, #544)	190.98		
John Rickett (#545)	125.00		
b. Treasurer's Office			
Discount Office Products (#542)	6.89		
Total	322.87	322.87	
4. ANNUAL MEETING EXPENSES (UAMS)			
a. The Shirt Shop (Plaque) (#532)	39.22		
b. David Chittenden (Plaques) (#523)	86.38		
Total	125.60	125.60	
5. NEWSLETTER			
a. Dean's Office - ATU (#534)	88.63		
b. Agrl. Exp. Station (#547)	38.24		
c. UAM Act. No 11-5-11029 (#650)	30.16		
Total	157.03	157.03	
6. DUES - National Association of Academies of Science (#548)			
			29.80
TOTAL EXPENSES			\$8939.03

5. Spears asked the Secretary to report on the membership. The Academy probably has as many members as ever, but several are in arrears.
6. Spears called on the *Proceedings* Editor (Barton) who reported that the current issue of the *Proceedings* is finished and available at the registration desk. Barton also asked authors to submit manuscripts intended for publication at this meeting. Motion (Barton, 2nd Beadles): That the Academy appropriate \$500 for editorial assistance in the preparation of Volume 44 (1990) of the *Proceedings*.
7. Spears called on the Newsletter Editor (Kluender) who reported on a successful year. Motion (Kluender, 2nd Robison): That the Academy appropriate \$250 to cover the cost of the 1990-91 Newsletter. Kluender asked for clarity and promptness of information for the Newsletter.
8. Spears called on the Director of Arkansas Science Fairs (Rapp) who reported that 800-1000 students participated. Rapp commended the regional directors. Motion (Rapp, 2nd Anderson): That the Academy appropriate \$200 to support the activities of the Arkansas Science Fairs in 1990-91.
9. Spears called for a report from the Arkansas (Westinghouse) Science Talent Search. Mike Rapp (for John Peck, in absentia) reported the winner was Michael L. Harrison of Batesville, AR with the paper, "My Formula Governing Higher Sums." His sponsor was Mr. Paul Reynolds of Batesville Senior High School. Motion (Rapp, 2nd Robison): That the Academy appropriate

\$100 to support the Arkansas Science Talent Search in 1990-91. Spears also announced the Junior Science & Humanities Symposium was successful.

10. Mike Rapp (for Paul Krause, in absentia) submitted a Motion (2nd Robison): That the Academy appropriate \$250 to support the Junior Academy of Science in 1990-91.
 11. Spears asked for the report from the Nominating Committee. Mike Rapp (for Don Culwell, Joe Guenter and Neal Buffaloe) submitted Alex Nisbet's nomination for Vice President (2nd Barton). Floor opened: Rapp nominated Mark Draganjac, and Betty Spears nominated Art Johnson. Beadles moved the nominations cease. Passed.
- Floor opened for nominations to the office of Historian. Spears nominated Henry Robison. No other nominations were received.
12. Spears announced there was no report from the Biota Committee, but next year additional lists will be available.
 13. Spears called on Robbin Anderson who reported on the Science Education Committee. Anderson explained the restructuring of the committee and announced an open meeting to draw up plans for future activities.
 14. Spears appointed a Resolutions Committee of Gary Heidt, Dan England and John Pauley.

15. Spears announced the presence (at this evening's dinner) of Dr. David Luck, Chairman of the Board of Higher Education. He should be available for questions.
 16. Spears announced that no invitation has been received for the 1992 meeting. Maybe one will come forth for the second business meeting.
 17. Spears asked the section chairmen to stay on time.
 18. Spears announced the social hour from 5-6 pm at the Ramada Inn.
- President Spears adjourned the meeting at 1320.

SECOND BUSINESS MEETING

President Spears called the meeting to order at 1202 pm.

1. Spears called for the approval of the minutes of the business meetings of the 1989 Annual Meeting of the Academy. Passed as presented.
 2. Spears called on the Audit Committee for a report. Art Johnson submitted a statement that the Audit Committee had examined the Treasurer's records and found them to be in order, having been kept with prudence. Motion (Johnson, 2nd Robison): That the Academy accept the Audit Committee's report. Passed.
- Spears then called for approval of the Treasurer's report. Passed without amendment.
3. Spears called the Secretary to restate the motions made at the first business meeting for appropriations.

Motion (Barton, 2nd Beadles): \$500 for editorial assistance Motion (Kluender, 2nd Robison): \$250 for the Newsletter Motion (Rapp, 2nd Anderson): \$200 for the Science Fairs Motion (Rapp, 2nd Robison): \$100 for the Science Talent Search Motion (Rapp, 2nd Robison): \$250 for the Junior Academy of Science

Secretary's Report

All motions passed with one vote without discussion.

4. Spears asked Chittenden to report on the paper judging and announce the winners. Teresa Hines (UALR) won the life sciences award, A. Alzaam (UALR-GIT) won the physical sciences award, and M.D. Fletcher (ASU) won the graduate student award.
5. Spears conducted the election of new officers. Robison was elected by acclamation to a new (5-year) term of Historian. Written ballots elected Art Johnson as Vice President.
6. Spears called for the report from the Resolutions Committee, which was read by the Secretary:

Be it resolved that:

The members of the Arkansas Academy of Science express their sincere appreciation to the faculty, staff and students of Arkansas State University for hosting our 1990 meeting in their beautiful new facilities. The membership takes this opportunity to especially thank Dr. Larry Boucher, the Local Chairman and his local arrangements committee for the many hours they have worked on behalf of the membership to make this meeting such a success. The membership would like to draw attention to the meeting program in order to identify and thank the section chairpersons and individual presenters for an outstanding job.

Thanks are also extended to Richard K. Spears, president; Robert L. Watson, president-elect; David Chittenden, immediate past president; the remaining officers and other members of the Executive Committee and other committees to the Academy whose cooperative efforts were so apparent during the meeting.

Finally we thank Dr. Bassam Shakhshiri for his enlightening address and the Reng Center for providing an excellent dinner.

— Gary Heidt, John Pauley, Dan England

Motion (Harp, 2nd Godwin): That the report of the Resolutions Committee be approved. Passed.

7. Spears called for old business. None was forthcoming.
8. Spears called for new business.
 - a. H. Robison announced the 1991 meeting will be the 75th Anniversary meeting for the Academy, and he is planning a historical display. He requested pictures of past officers and Academy events for this display.
 - b. Spears expressed appreciation for faculty and student support of the Academy meetings.
9. Spears passed the gavel to Robert Watson thus installing him as the new President, and Watson presented Spears an appreciation plaque.
10. Watson's inaugural remarks:
 - a. Let's use the 75th Anniversary meeting as an opportunity for reflection on past accomplishments and future encouragement.
 - b. Let's get more involved in the Academy — bring students, build alliances with public schools and reclaim old friends in academia.
 - c. Pledged service and asked for help and input.
11. Watson requested that as many copies of the *Proceedings* as possible be picked up and delivered to those not present.
12. Kluender asked about an invitation for the 1992 meeting; none has been received. Watson requested people give it serious thought and notify the Executive Committee.
13. Watson expressed thanks to Larry Boucher and the local arrangements committee for their efforts and bid him godspeed as he leaves Arkansas for a new position.

President Watson adjourned the meeting at 1224 pm.

REGULAR MEMBERS 1990

Roger Abernathy	Arkansas State University
Stephen R. Addison	University of Central Arkansas
Syed M. Aljaz	University of Arkansas at Pine Bluff
Bob Allen	Arkansas Tech University
Robert T. Allen	University of Arkansas
Silke Hufnagel Allen	Hendrix College
Cynthia Annett	Univ. of Ark./Fayetteville
John T. Annulis	University of Arkansas at Monticello
Robert K. Bacon	University of Arkansas
Max L. Baker	Univ. of Ark. for Medical Sci.
Kenneth M. Ball	Southern Arkansas University
Gwen Barber	University of Central Arkansas
Sara Mills Barnett	Texas Education Agency & UT-Austin
Adelphia M. Basford	Henderson State University (Retired)
Vernon Bates	(Botanical Consultant)
John Kenneth Beadles	Arkansas State University
Helen Benes	University of Arkansas for Medical Sciences
Ann Marie Benson	University of Arkansas for Medical Sciences
Hal Berghel	Univ. Ark./Fayetteville
C. Bhuvaneswara	University of Arkansas for Medical Sciences
Veryl V. Board	Arkansas College
Marilyn D. Bocksnick	Arkansas Tech University
Laurence J. Boucher	Arkansas State University
William R. Bowen	University of Arkansas at Little Rock
Leo H. Bowman	Arkansas Tech University
Patricia Brackin	Christian Brothers College
Jimmy D. Bragg	Henderson State University
Wilfred J. Braithwaite	Univ. of Arkansas at Little Rock
Marge A. Brewster	University of Arkansas for Medical Sciences

John F. Bridgman	University of the Ozarks
Arthur V. Brown	University of Arkansas
Connell J. Brown	University of Arkansas
Helen G. Brown	University of Arkansas
Joseph M. Brown	Mississippi State University
Richard H. Brown	Ouachita Baptist University
Susan G. Brown	Univ. of Arkansas at Little Rock
William D. Brown	University of Arkansas
Charles T. Bryant	Water Resources Associates of Arkansas
Charles T. Bryant, Jr.	Water Resources Associates of Arkansas
Neal D. Buffaloe	University of Central Arkansas
Gaylen Burnside	Univ. of Arkansas at Little Rock
Chris Carlton	University of Arkansas/Fayetteville
Michael Cartwright	Arkansas Game & Fish Commission
Carl E. Cerniglia	National Center for Toxicological Research
Phyllis Chaffin	Arkansas State University
Stanley L. Chapman	Univ. of Ark. Cooperative Extension Service
John S. Choinski, Jr.	University of Central Arkansas
Frances E. Clayton	University of Arkansas
Malcolm K. Cleaveland	University of Arkansas
Richard R. Cohoon	Arkansas Tech University
Larry Coleman	Univ. of Arkansas at Little Rock
George W. Colton	Arkansas Geological Commission
Robert L. Cook	Mississippi State University
Janice Lorraine Cooper	Arkansas State University
Robert M. Cordova	Cordco Consulting
William Coumts	Univ. of Ark./Little Rock
Bob W. Cowling	Malvern High School
Randy T. Cox	University of Arkansas at Monticello

Arkansas Academy of Science

- Fred Daiske
James J. Daly
James T. Daniels
Stanley N. David
Don C. De Luca
Peggy Rae Dorris
Robert L. Douglas
Lee Lee Doyle
Benjamin T. Duhart
Danny J. Ebert
Tammy Kay Ebsen
Rudolph J. Eichenberger
Thomas K. Ekman
Hudson B. Eldridge
Robert Engelken
Don England
Carole R. Engle
Claude E. Epperson
Ray Erickson
Wilbur W. Everett
E. Kim Fifer
Steve Filipek
M. Doug Fletcher
E. P. Floyd
Thomas L. Foti
Paul B. Francis
Winefred Fraser
Kenneth Freiley
Jack Gaiser
Diana Garland
Joe P. Gentry
Michael George
Mattie Glover
Kamesh Godepally
Glynn Good
Thomas E. Goodwin
William E. Gran
D. Leroy Gray
Wayne L. Gray
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Donald C. Greenland
B. R. Griffin
Gaston Griggs
Tyrrel C. Grohman
Mark Gross
Peggy Guccione
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Jarvis Harper
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Roger M. Hawk
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Larry Hinck
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Maxine R. Hite
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Kathy M. Holobar
Kay Holtman
William G. Hood
Arthur Hoyt, Jr.
E. E. Hudson
M. Keith Hudson
Jim Huey
Julie Huggins
Charles A. Hughes
Duane Jackson
M. D. Jalaluddin
Joe Jeffers
David Jimerson
James E. Johnson
Michael I. Johnson
Suzanne M. Jones
Jay Justice
Alvan A. Karlin
Philip Kehler
Raj V. Kilambi
Scott Kirkconnell
Maurice G. Kleve
Richard Kluender
Roger E. Koeppe II
Richard A. Komoroski
Randall A. Kopper
- University of Central Arkansas
University of Arkansas for Medical Sciences
SAU - Tech
Arkansas State University
University of Arkansas for Medical Sciences
Henderson State University
Memphis State University
University of Arkansas for Medical Sciences
University of Arkansas at Pine Bluff
U. S. Forest Service
University of Arkansas at Little Rock
Southern Arkansas University
Southern Arkansas University
University of Central Arkansas
Arkansas State University
Harding University
University of Arkansas at Pine Bluff
University of Arkansas for Medical Sciences
Soil Cons. Service
Ouachita Baptist University
Univ. of Ark. for Medical Sciences
Arkansas Game & Fish Commission
Arkansas State University
U. S. Public Health Service (Retired)
Arkansas Natural History Commission
University of Arkansas at Monticello
Arkansas College
Univ. of Central Arkansas
University of Central Arkansas
Memphis State University
Arkansas Science & Technology Authority
Arkansas State University
University of Arkansas at Pine Bluff
Univ. of Arkansas at Little Rock
Ouachita Baptist University
Hendrix College
Univ. of Arkansas at Little Rock
Univ. of Ark. Cooperative Extension Service
Univ. of Ark. for Medical Sciences
Mississippi State University
U. S. Fish & Wildlife Service
U. S. Fish & Wildlife Service
John Brown University
University of Arkansas for Medical Sciences
University of Arkansas Graduate Institute of T
Univ. of Ark./Fayetteville
University of Arkansas
University of Arkansas at Monticello
Univ. of Arkansas at Little Rock - GIT
Arkansas State University
Hendrix College
UALR/UAMS
Arkansas State University
Univ. of Ark. Cooperative Extension Service
University of Arkansas at Little Rock
Alcoa
Arkansas Highway & Transportation Department
Tennessee Tech. University
Arkansas Game & Fish Commission
University of Arkansas at Little Rock
Arkansas Tech University
Univ. of Ark./Little Rock
Arkansas State University
University of Central Arkansas
University of Arkansas
University of Arkansas at Little Rock
Everglades National Park
University of Arkansas at Little Rock
Univ. of Arkansas at Little Rock
University of Central Arkansas
Arkansas Tech University
Univ. of Arkansas at Little Rock
University of Arkansas at Monticello
Union University
Arkansas State University
Univ. of Arkansas at Little Rock
University of Arkansas at Pine Bluff
Ouachita Baptist University
Arkansas State University
Univ. of Ark./Fayetteville
Nettleton High School
Arkansas State University
Arkansas Dept. of Pollution Control & Ecology
Univ. of Ark./Little Rock
University of Arkansas at Little Rock
University of Arkansas
Arkansas Tech University
University of Arkansas at Little Rock
University of Arkansas
Hendrix College
- Walter A. Korfmacher
Timothy A. Kral
Paul Krause
Jack C. Kreie
Timothy T. Ku
Forrest E. Lane
Danny L. Lattin
Norman Lavers
Kwang Lee
Linda A. Lee
Jerry L. Linnstaedter
J. Mitchell Lockhart
Thomas J. Lynch
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Ali Mansouri
Mitchell K. Marks
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Rose McConnell
Paul McLeod
Clarence E. McMahon
Dennis W. McMasters
Harlan McMillan
Tammie McRae
Walter E. Meshaka, Jr.
Lawrence Mink
Richard S. Mitchell
Sanjay K. Mitra
Jewel E. Moore
Leland F. Morgans
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G. J. Musick
Paul Nave
Walter Neasbitt
Nathaniel Nehus
Thomas Nelson
W. Donald Newton
William F. Nicholson
Joe Nix
Timothy J. O'Brien
Kelly H. Oliver
Derrick M. Oosterhuis
Bryan D. Palmer
Leo J. Paulissen
Mark A. Paulissen
John E. Pauly
Forrest Payne
Ernest J. Peck
John D. Peck
Bill Pell
Charles H. Pennington
Jacob R. Phillips
Robert A. Pierce
Mark A. Pippenger
Albert B. Pittman
Michael V. Plummer
Gayle L. Pounds
Harold Pray
Mazo Price
Denver L. Prince
Paul L. Raines
S. Ramaprasad
Derik J. Reed
Ruby S. Reynolds
Edward L. Richards
Donald Rickard
Thomas W. Rimmer
Johnnie G. Roberts
Marty Roop
Peggy Root
Perry C. Rothrock, III
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Leo Setian
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William H. Shepherd
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Burla J. Sims
Robert Sims
Sidney Skinner
Tom Slatton
Edwin B. Smith
Kenneth L. Smith
Kimberly G. Smith
Roy J. Smith, Jr.
Clifford S. Snyder
- National Center for Toxicological Research
University of Arkansas
Univ. of Central Ark.
Fayetteville Public Schools
University of Arkansas at Monticello
University of Arkansas
University of Arkansas for Medical Sciences
Arkansas State University
University of Arkansas at Pine Bluff
Pocahontas Middle School
Arkansas State University
University of Arkansas
University of Arkansas at Little Rock
Christian Brothers University
University of Arkansas for Medical Sciences
Ark. State University
Univ. of Arkansas at Little Rock
Dallas VA Medical Center
Arkansas State University
University of Arkansas
Ouachita Baptist University
University of Arkansas at Pine Bluff
Univ. of Arkansas at Little Rock
Hendrix College
Henderson State University
Arkansas Tech University
National Ctr. for Tox. Research
Arkansas State University
Arkansas State University
Arkansas State University
Univ. of Arkansas at Little Rock
University of Central Arkansas (Retired)
University of Arkansas at Little Rock
University of North Texas
University of Arkansas
Arkansas State University
Arkansas State University
Arkansas Dept. of Pollution Control & Ecology
Arkansas Tech University
Arkansas State University
University of Arkansas at Monticello
Ouachita Baptist University
University of Arkansas for Medical Sciences
Henderson State University
University of Arkansas
Henderson State University
University of Arkansas
Slippery Rock University
University of Arkansas for Medical Sciences
FTN Associates
University of Arkansas for Medical Sciences
University of Central Arkansas
Arkansas Natural Heritage Comm.
USAE Waterways Experiment Station
University of Arkansas
Univ. of Ark. Cooperative Extension Service
Univ. of Arkansas for Medical Sciences
Arkansas Natural History Commission
Harding University
Univ. of Arkansas at Pine Bluff
University of Central Arkansas
Univ. of Ark./Pine Bluff
University of Central Arkansas
Arkansas State University
Univ. of Arkansas for Medical Sciences
University of Arkansas at Monticello
University of the Ozarks
Arkansas State University
Arkansas Tech University
Univ. of Arkansas at Little Rock
Arkansas State University
Univ. of Arkansas for Medical Sciences
Southern Arkansas University
Univ. of Arkansas for Medical Sciences
Univ. of Arkansas for Medical Sciences
Nat. Center for Tox. Research
University of Arkansas
University of Arkansas
John Brown University
University of Arkansas at Little Rock
John Brown University
Univ. of Ark./Little Rock
Arkansas Natural History Commission
Arkansas State University
University of Arkansas at Little Rock
Univ. of Arkansas at Little Rock
USDA - ARS
University of Arkansas at Little Rock
University of Arkansas
Arkansas Natural History Commission
University of Arkansas
U. S. Department of Agriculture
Univ. of Ark. Cooperative Extension Service

Secretary's Report

David G. Snyder	Univ. of Arkansas at Monticello	Joel T. Walker	University of Arkansas
John R. Sorenson	Univ. of Ark./Med. Sci.	David Weaver	Arkansas State University
Frederick W. Spiegel	University of Arkansas	Karen Weaver	Univ. of Central Arkansas
Kenneth F. Steele	University of Arkansas	G. J. Weidemann	University of Arkansas
Marcus L. Steele	Henderson State University	Wendy Welch	Arkansas Highway & Transportation Department
Denise Steigerwald	Univ. of Arkansas at Monticello	David E. Wennerstrom	University of Arkansas for Medical Sciences
Stan Steight	Arkansas State Parks	Delores Wennerstrom	Pulaski Academy
Ann H. Steinmeier	Baptist Medical Center	Laurin Wheller	University of Arkansas
T. W. Steward	Arkansas State University	Jonathan White	Memphis State University
Nathan Stone	Cooperative Extension Service - UAPB	Marion C. Wicht, Jr.	Arkansas College
Joseph Sylvester	Cooperative Extension Service - UAPB	T. Bentley Wigley	University of Arkansas at Monticello
Sandy Tedder	University of Arkansas	J. D. Wilhide	Arkansas State University
Lyell Thompson	University of Arkansas	James T. Willcut	Arkansas Tech University
Dan Timmerman	Arkansas State University	William M. Willingham	University of Arkansas at Pine Bluff
Les Torrans	University of Arkansas at Pine Bluff	Rebecca L. Willis	Southern Arkansas University
Stanley E. Trauth	Arkansas State University	Edmond W. Wilson, Jr.	Harding University
William W. Trigg	Arkansas Tech University	Ronald H. Winters	University of Arkansas for Medical Sciences
Renn Tumison	Oklahoma State University	Duane C. Wolf	University of Arkansas
Tom Turner	Quachita Baptist University	Robert D. Wright	University of Central Arkansas
Glyn Turnipseed	Arkansas Tech University	Chaoping Wu	Univ. of Arkansas at Little Rock
Richard K. Ulrich	University of Arkansas	William Wyatt	Arkansas State University
Victor Vere	Arkansas Tech University	Karen L. Yaich	Arkansas Game & Fish Comm.
Tito Viswanathan	University of Arkansas at Little Rock	Chia C. Yang	Arkansas Tech University
David L. Vosburg	Arkansas State University	Dominic T. Yang	University of Arkansas at Little Rock
George H. Wagner	University of Arkansas	Jimmie D. Yeiser	University of Arkansas at Monticello
Ernest M. Walker	UAMS & McClellan VA Hospital	J. Lyndal York	University of Arkansas for Medical Sciences
		David A. Young	Fayetteville Public Schools

ASSOCIATE MEMBERS 1990

George T. Blevins	Univ. of Ark./Med. Sci.	Robin Matthews	University of Arkansas at Little Rock
Loren J. Giesler	Chadron State College	Stephen W. Miller	University of Arkansas
David Goad	University of Arkansas at Little Rock	Michael Murphy	
Kevin D. Golden	Henderson State University	Donna Porter	University of Arkansas
William Brian Harrod	University of Arkansas	Marsha Rowe	Southern Arkansas University
Christopher C. Hemann	Hendrix College	Michael E. Scheinost	University of Arkansas
Brett Hobbs	Henderson State University	Elwood B. Shade	University of Arkansas at Monticello (Retir)
John Marr	University of Central Arkansas	Charlene Shrock	University of Arkansas at Pine Bluff
Michael L. Martin	Arkansas State University	Bruce M. Whitney	University of Arkansas

SUSTAINING MEMBERS 1990

Harvey E. Barton	Arkansas State University	Horace N. Marvin	University of Arkansas for Medical Sciences
Judith A. Bean	University of Central Arkansas	Daniel M. Mathews	University of Arkansas for Medical Sciences
John B. Bennett	Arkansas State University	Roland E. McDaniel	Arkansas Dept. of Pollution Control & Ecology
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