

1996

80th Annual Meeting, 1996. Secretary's Report and Financial Statement

Academy Editors

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Editors, Academy (1996) "80th Annual Meeting, 1996. Secretary's Report and Financial Statement," *Journal of the Arkansas Academy of Science*: Vol. 50, Article 3.
Available at: <https://scholarworks.uark.edu/jaas/vol50/iss1/3>

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PROCEEDINGS ARKANSAS ACADEMY OF SCIENCE

ANNUAL MEETING 12-13 APRIL 1996
WESTARK COMMUNITY COLLEGE, FORT SMITH, AR

Peggy R. Dorris
President

Richard Kluender
President-Elect

John D. Rickett
Secretary

Robert Wiley
Treasurer

NAAS Delegate

Henry Robison
Historian

Secretary's Report

MINUTES OF THE 80TH MEETING

FIRST BUSINESS MEETING 12 APRIL 1996

Number present: 20

President Dorris called the meeting to order at 1109 hrs and recognized the following persons for the stated announcements and reports:

1. Myron Rigsby for introductory remarks. He offered a warm welcome and extended thanks to the other members of the local arrangements committee; called attention to the program, slide preview room, computer room (for last minute changes), and issued invitations to the mixer (1700-1800 hrs) and the banquet at 1830 hrs. He also encouraged people to say thanks to the vendors.
2. John Rickett (Secretary's report): noted distribution points of copies of 1995 business meeting minutes and moved approval and acceptance, pending any corrections (2nd: Rigsby).
3. Henry Robison (Historian's report): this is the 80th annual meeting; the first time on the Westark Campus.
4. Robert Wiley (Treasurer's report): noted distribution points of copies of the financial report and followed with a brief explanation of income and expenses, including some of the usual mechanisms of how funds are invested and withdrawn for payments of bills. Floor was opened for discussion of the report but none came. Wiley moved acceptance of the report (2nd: G. Tucker). President Dorris appointed the Auditing Committee (Jim Bragg, Chair, Dan England and Mike Mathews) to review the financial statement and have a report for the second business meeting.

FUNDS

Beginning Balance - 1 January 1995	23,905.89
Total Income (Page 2)	14,697.39
Total Expenses (Page 3)	20,205.47
Balance for the Year	-5,508.08
CLOSING BALANCE - 31 DECEMBER 1995	\$18,397.81

DISTRIBUTION OF ACCOUNTS

Interest Bearing Checking Account (Union Bank and Trust Co., Monticello, AR)	5,542.13
Certificates of Deposit	
Dwight Moore Endowment (Heritage Bank - A Federal Savings Bank - Monticello - No. 506698.1 - 5.85% Int.)	2,735.78
Life Membership Endowment (Heritage Bank - A Federal Savings Bank - Monticello - No. 507290.1 - 5.50% Int.)	10,119.90
TOTAL	\$18,397.81

Respectfully Submitted

Robert W. Wiley, AAS Treasurer

FINANCIAL STATEMENT, ARKANSAS ACADEMY OF SCIENCE

INCOME: 1 January 1995 to 31 December 1995

1. INDIVIDUAL MEMBERSHIPS		
a. Regular	1,530.00	
b. Sustaining	260.00	
c. Sponsoring	60.00	
d. Life	225.00	
e. Associate	160.00	
	2,235.00	2,235.00
2. INSTITUTIONAL MEMBERSHIPS		900.00
3. PROCEEDINGS, LIBRARY SUBSCRIPTIONS		945.00
4. PROCEEDINGS, MISC. SALES (UAF)		4,143.02
5. PROCEEDINGS, PAGE CHARGES		5,537.50
6. ANNUAL MEETING		151.64

7. INTEREST		
a. Interest Bearing Checking Account	146.83	
b. Dwight Moore Endowment	125.01	
c. Life Membership Endowment	187.19	
d. AAS Endowment	153.59	
e. AAS General I.	37.61	
	<hr/>	
	650.23	650.23
8. ENDOWMENT DONATIONS		
a. Dwight Moore Endowment	110.00	
b. AAS Endowment	25.00	
	<hr/>	
	135.00	135.00
TOTAL INCOME		\$14,697.39

FINANCIAL STATEMENT, ARKANSAS ACADEMY OF SCIENCE

EXPENSES: 1 January 1995 to 31 December 1995

1. AWARDS		
a. Arkansas Science Fair Association (#648)	450.00	
b. Arkansas Junior Academy of Science (#649)	250.00	
c. Jennifer Burks (#650)	50.00	
d. Brian T. Bean (#651)	25.00	
e. David Eller (#652)	25.00	
f. Delaney Kinchen (#653)	50.00	
g. Sue Ellen McCloskey (#654)	25.00	
h. Crissy Patterson (#655)	25.00	
i. John Peck, Plaques - Arkansas Science Talent Search (#646)	227.90	
	<hr/>	
	1,127.90	1,127.90
2. PROCEEDINGS		
a. Stan Trauth, Editorial Consultation and Travel Vol. 48 (#644)	200.00	
b. Creative Multigraphics (Vol. 48) (#647)	17,562.46	
c. Joy Trauth, Editorial Consultant Vol. 49 (#658)	500.00	
	<hr/>	
	18,262.46	18,262.46
3. OFFICE EXPENSES		
a. Secretary's Office, John Rickett (#657)		620.79
4. ANNUAL MEETING		
a. Peggy Rae Dorris, Plaque (#660)		37.28
5. NEWSLETTERS		
a. Allwin Direct (#643)		94.54
6. DUES		
a. National Association of Academies of Science (#645)		62.50
		<hr/>
TOTAL EXPENSES		\$20,205.47

Academy be required to bear the entire cost of producing the *Newsletter*.

7. Mike Mathews (Nominations Committee report): announced Rose McConnell and Tom Palko have been nominated for the office of Vice President and Henry Robison for Historian. Floor was opened for additional nominations but none came.
8. Jim Edson (Science Education Committee report): no Jim Edson; no report.
9. Mostafa Hemmati (Resolutions Committee composition): M. Hemmati, Chair, Joe Stoeckel and Charlie Gagen.
10. Doug James (Biota Committee report): in process of scanning old lists onto disk which will then be ready for editing. He is also requesting new lists. The compilation will probably be published by UofA Press.
11. Richard Kluender (Development Committee): displayed a demo copy of pamphlet and cover letter and explainted how and to whom he plans to distribute them--primary group: older AAS members, then foundations and corporations. He expects to mail out sometime over the summer and an announcement in *Newsletter* will tell how copies may be obtained for sendout by other individuals. Kluender requested \$250 to cover the cost of printing and distribution.
12. Steven Runge (Arkansas Science Talent Search): not present; a written report was on hand (Appendix A); requested \$230 for support.
13. Tom Palko (Jr. Science & Humanities Symposium): not present, no report at this time.
14. Robert Skinner (Jr. Academy of Science): not present; written report was on hand (Appendix B); asked for \$250 for support.
15. Mike Rapp (State Science Fair Assn.): not present; written report was on hand (Appendix C); asked for \$450 for support.
16. Richard Kluender (1997 meeting): the 81st annual meeting will be at Univ. of Arkansas at Monticello, 4 and 5 April; they have some new/renovated facilities, and the city has additional motel accomodations.
17. David Saugey (1998 meeting): the USFS is inviting

5. Stan Trauth (*Proceedings* Editor's report): announced that members' copies of Vol. 49 are available and asked campus representatives to take unclaimed copies back with them to their respective institutions and distribute. He pointed out some details that were different from the last volume and requested \$200 for Editor's travel and \$500 for editorial assistance.
6. David Saugey (*Newsletter* Editor's report): requested news items and suggestions for format changes. He asked for \$1500 to be set aside for support should the

the 82nd annual meeting to Hot Springs at the Ramada Inn. The invitation has been accepted by the Executive Committee.

18. President Dorris called for any other old business; none came.
19. Dorris then recognized John Rickett who explained changes regarding student paper awards in reference to recently acquired support from the Arkansas Environmental Federation. He also outlined some future negotiations with AEF needed to continue their involvement with the student awards.
20. Dorris: announcements: (a) submit MSS at this meeting; (b) banquet and speaker, Dr. I.L. Brisbin, whose topic will be "Razorbacks, Bulldogs and Gamecocks: A new look at conservation ecology from an SEC perspective."
21. President Dorris entertained a motion to adjourn at 1149 hrs.

SECOND BUSINESS MEETING 13 APRIL 1996

Number present: 83

President Dorris called the meeting to order at 1205 hrs and recognized the following individuals for reports and/or business.

1. Secretary: reintroduced minutes from the 1995 annual meeting; no corrections received; minutes accepted by voice vote.
2. Treasurer: reintroduced his report presented at the first business meeting and asked for any questions or corrections. The Auditing Committee was recognized and reported the Treasurer's report was in good order; report was approved and accepted.
3. Secretary: reiteration of requests from ancillary organizations for financial support--

Junior Academy of Science--\$250
State Science Fair Assn.--\$450
Arkansas Science Talent Search--\$230
Proceedings Editor's office--\$700
Newsletter production--\$1500
TOTAL--\$3130

No discussion followed, motion was approved.

4. Nominating Committee (M. Mathews): V-P election: nominations from committee: Rose McConnell and Tom Palko; no nominations from floor; Historian's position: Robison nominated by committee; none from floor; motion came that nominations cease and Robison be elected as Historian by acclamation. Ballots for V-P election were distributed and collected.
5. Hemmati: Resolutions committee: (Appendix C).
6. Kluender: invitation to UAM for the 1997 (4, 5 April) meeting.
7. Saugey: invitation to Hot Springs for the 1998 meeting (to be hosted by US Forest Service).
8. Rickett: to explain negotiations with the Arkansas Environmental Federation regarding student awards. (AEF is doubling the cash awards to undergraduate winners this year, and wish to establish an "Environmental Science" Award with a sizable sum for next year and beyond. They will also annually deposit \$100 with one of the Academy's Endowment Funds for administering this award system). Rickett then introduced Mr. Scott Horton to represent AEF and award undergraduate paper winners with checks and David Meeks to announce the winners.
9. Rigsby: report on registrations and attendance: 170 registrations; 104 banquet tickets sold. He expressed appreciation to corporate sponsors and their support. Rigsby also thanked various individuals who helped arrange the meeting and Westark Administrators who approved using the facilities of Westark.
10. Hemmati: for Tom Palko's report on activities of the Junior Science & Humanities Symposium.
11. President Dorris asked for any other old business, but none came.
12. Dorris then asked for any new business. None.
13. Dorris then announced:
 - a. pick up *Proceedings* copies
 - b. give manuscripts to Trauth
 - c. the new Vice President is Rose McConnell
 - d. Robison has been re-elected as Historian
 - e. recognized Jim Daly as new President-Elect and Richard Kluender as new President
 - f. thanked AEF for their part in student awards;
 - g. appreciated the first time ARCC has met with

AAS

- h. first time we've had a Behavioral Sciences Section
14. President's departing message:
- thanks to all who helped make this meeting a success
 - thanks to all those who helped make her Presidency a success
15. Dorris then called Kluender to the podium and handed him the gravel as new President:
- Kluender presented Dorris with an appreciation plaque
 - Kluender recognized several firsts at this meeting: first time at Westark; first time for a forester and economist to be President; but Dorris was the fourth woman to be President.
 - this is a critical time regarding forest resources and economics; we are facing many challenges
16. Kluender then asked for any new business. When none came, he adjourned the meeting at 1248 hrs.

--- Respectfully submitted,
John Rickett, Secretary

APPENDIX A

ARKANSAS ACADEMY OF SCIENCE

Following are the winners of the 45th Annual Arkansas Science Talent Search 1995-96, held in conjunction with the 55th Annual Westinghouse Science Talent Search.

FIRST PLACE

Robert Brian White "Determination of magnetic susceptibilities for paramagnetic compounds and *Escherichia coli*"
4711 Belle Drive
Paragould, AR 72450
Arkansas School for Mathematics and Sciences
Sponsor: Dr. Irina Lyblinskaya

SECOND PLACE

Joanna Marie Reuter "The effect of three Ozark geological formations on forest composition"
R.t 5, Box 243
Berryville, AR 72616
Arkansas School for Mathematics and Sciences
Sponsor: Mr. Rodney Harris

THIRD PLACE

Anna Ruth Terry "The fractal geometry of landforms"
2714 Yorktown Circle
Fort Smith, AR 72903
Southside High School, Fort Smith
Sponsor: Ms. Barbara Davis

HONORABLE MENTION

Yasmeen Ahmad Golzar "The effect of IFG-I on the growth of progeric and normal human diploid fibroblasts"
6 Brookridge Cove
Little Rock, AR 72205
Central High School, Little Rock
Sponsor: Ms. Jacqueline Dyer

HONORABLE MENTION

Billynda Lucille Booth "Effects of Fe, Mn and Zn 3, 5-diisopropylsalicylate chelates on porcine heart diaphorase"
318 Malibu Drive
Little Rock, AR 72211
Central High School, Little Rock
Sponsor: Ms. Jacqueline Dyer

----- Submitted by
Steven Runge

APPENDIX B

ARKANSAS ACADEMY OF SCIENCE
ARKANSAS STATE SCIENCE FAIRS AND
JUNIOR ACADEMY REPORT

Thank you for the support the Academy has provided for the past 13 years because of the financial support and members who have served as science fair judges. This memo serves as a report on the Science Fairs and Junior Academy of Science Meetings held in Arkansas in 1996:

Regional Science Fairs:

Region	Location	Date	#	Directors
Central	UAMS	2 Mar	332	Jane Meadows Margie Snider Marian Douglas
Northcentral	Lyon College	29 Mar	134	Robert Bustin Beverly Meinzer Kathy Campbell
Northeast	ASU	8, 9 Mar	274	Larry Mink David Gillanders Ron Johnson
Northwest	U of A	15 Mar	232	John Hehr Lynne Hehr
Southcentral	OBV	15 Mar	179	Vincent Cobb Lisa Cobb
Southeast	UAM	8 Mar	277	Jerry Brothers Deborah Phillips
Southwest	SAU	8 Mar	209	Carson Davis
Westcentral	ASMS (H. S.)	26 Feb	270	Dana Lambert

As of this date, 261 students (242 projects) have registered for the state science fair, and 65 students have registered to present papers at the state Junior Academy of Science meeting, to be held 12, 13 April at the University of Central Arkansas. Mike Rapp is director of the state

fair, and Bob and Raynell Skinner are the state co-directors of the Junior Academy of Science.

----- Submitted by Mike Rapp
6 April 1996

APPENDIX C

1995 MEETING OF THE ARKANSAS ACADEMY OF SCIENCE

RESOLUTIONS

BE IT RESOLVED, that we, the members of the Arkansas Academy of Science, offer our sincere thanks to Westark Community College at Fort Smith for hosting the 1996 meeting of the Arkansas Academy of Science. In particular, we thank the local arrangements committee for an outstanding job of organizing the meeting: Joel Stubblefield (President), Michael Hightower (Vice President for Instruction), Myron Rigsby (Division Chair and Local Arrangements Chair), Kent Estes (Printing), Thomas Buchanan (Abstracts, Scheduling), Ragupathy Kannan (Invited Speaker Arrangements). Appreciation is expressed for the use of Westark Community College's excellent facilities and the hospitality shown us by all Westark Community College personnel. The banquet was excellent, as was Dr. I. Lehr Brisbin and his dynamic presentation, "Razorbacks, Bulldogs, and Gamecocks: A New Look at Conservation Ecology from an SEC Perspective."

The Academy recognizes the important role played by the various section chairpersons and expresses appreciation to: Lynda Nelson and John Deaton (Chemistry); Gary Tucker (Botany); Henry Robison and Daniel England (Vertebrate Zoology); Edwin S. Braithwaite and W.J. Braithwaite (Physics, Computers, Astronomy, Energy, Geology); John Harris, Kent Estes and James Peck (Aquatic Biology); Wayne L. Gray (Microbiology, Cellular Biology); and Charles Gagen (Arkansas River Symposium).

A special thanks is owed the individuals who devoted considerable time and energy to judging student papers: Kelly Loftin and Joe Sidlowski (Undergraduate Life Sciences); Bob Watson, Art Johnson, and Thomas Foti (Graduate Life Sciences); Mostafa Hemmati and John Deaton (Undergraduate Physical Sciences).

We express gratitude to the various directors of the science and youth activities which are supported by the Academy: Jim Edson (Chairperson, Science Education Committee); Mike Rapp (President, Arkansas State Science Fair Association); Tom Palko (Director, Junior Science and Humanities Symposium); Steve Runge

(Director, Science Talent Search); and Robert and Raynell Skinner (Co-Directors, Arkansas Junior Academy of Science).

We wish to thank all those individuals who served as directors at Science Fairs and Junior Academy Meetings: Jane Meadows, Margie Snider (Central Region); Roberta Bustin and Beverly Meinzer (Northcentral Region); Larry Mink and David Gillanders (Northeast Region); Lynne and John Hehr (Northwest Region); Vince Cobb (Southcentral Region); Carson Davis and Joe Giddens (Southwest Region); Jerry Brothers (South East Region); Dana Lambert (West Central Region) and Michael Rapp (State Meeting, UCA, Conway).

The continued success of the Academy is due to its strong leadership. We offer sincere thanks to our officers for another excellent year: Peggy Rae Dorris (President), Richard Kluender (President-Elect), James Daly (Vice President), John Rickett (Secretary), Robert Wiley (Treasurer), James Peck (Past President), Stan Trauth (*Proceedings* Editor), David Saugey (*Newsletter* Editor) and Henry Robison (Historian). In addition, the Academy expresses appreciation to all those individuals who have contributed their time and efforts on various committees of the Academy.

Finally, we congratulate all those who presented papers and posters at this meeting. Student participants are especially recognized, since their continued efforts will be directly responsible for the future success of the Academy and the continuation of science education and research in Arkansas.

Resolutions Committee

Mostafa Hemmati, Chairperson

Joe Stoeckel

Charlie Gagen

APPENDIX D

ARKANSAS ACADEMY OF SCIENCE

PAPER PRESENTATION AWARDS, 8 APRIL 1995

Life Sciences - undergraduate:

First: Patricia M. Anslow, Biology Department, U of A - Little Rock, "Mapping of thermal heat islands and tree canopy cover in an urban environment, Little Rock, AR."

- Second: Coburn S. Howell, III, Fish & Wildlife Dept., Ark. Tech. Univ., "Zebra mussel proliferation in Lake Dardanelle on the Arkansas River"
- Third: Amit R. Patel, Biology Department, Hendrix College, "Preliminary evidence refuting the current belief that biotin is oxidized in the same manner as straight chain fatty acids"

Physical Science - undergraduate:

- First: N.H. Le, U of A Fayetteville, "Residue 5 of gramicidin LW as a conformational switch"
- Second: Amber D. Climer, Physics Department, U of A - Little Rock, "An acceptance and efficiency study for detection of K⁺ and K⁻ within the time projection chamber of the solenoidal tracking instrument, for use at the relativistic heavy ion collider"
- Third: Chris Barber, Arkansas State University, "Preparation, doping and photo-conductive properties of vacuum evaporated tin (II) sulfide powders"

Honorable mention: Sharon M. Medlock
Scott M. Minor
Wesley A. Tate

Life Science - graduate:

- First: Charles V. Ashburn, U of A Medical Sciences, "DNA sequence analysis of the simian varicella virus uracil glycosylase gene"
- Second: Jennifer Akin, U of A Fayetteville, "Examination of the cell wall of *Micrasterias radiosa* var. *radiosa* (Conjugatophyceae) by transmission and scanning electron microscopy"
- Third: C.D. Milam, Arkansas State University, "Reference sediment selection in the lower Mississippi Delta"

Graduate: Physical Science: (no papers were submitted)

Poster recognition: M. E. Moss
Bradley J. Phillips
Brant Stanley

APPENDIX E

JUNIOR SCIENCE AND HUMANITIES SYMPOSIUM REPORT

The 30th Arkansas Junior Science and Humanities Symposium was held March 29-31, 1996 at Arkansas Tech University, Russellville, Arkansas. There were 119 student delegates and 22 teachers in attendance. They represented many areas of the state. The delegates had the opportunity to hear presentations by two professional scientists, Dr. Deborah Hansen, a research biologist at NCTR, and Dr. Chris Kellner, Associate Professor of Biology at ATU.

Events included seminars and tours on Friday and Saturday afternoons. Student research papers were presented during the morning session on Saturday. Sixteen papers were selected for presentation out of 87 submitted for judging. Four students were awarded full freshman fee ATU scholarships, and six were awarded trip packages to attend the National JSHS program in San Diego, April 25-28, 1996 as guests of the U.S. Army Office of Research.

Of the 16 papers presented, Robert Brian White, a senior at the Arkansas School for Math and Sciences, was awarded the highest recognition, which included a \$4,000 scholarship from the U.S. Army Office of Research and Office of Naval Research. He will compete at the National JSHS meeting with the top papers from each of the 47 other regions. The National JSHS meeting will be held at the University of San Diego and Scripps Institute.

Submitted by Tom Palko
12 April 1996

MEMBERS 1995

LAST NAME	FIRST MI	INSTITUTION
Al-Khayri	Jameel M.	University of Arkansas/Fayetteville
Bacon	Robert	University of Arkansas at Fayetteville
Baker	Max L.	University of Arkansas/Medical Sciences
Baltosser	William H.	University of Arkansas at Little Rock
Barber	Gwen	Arkansas Tech University
Battles	Les	Arkansas State University
Beadles	John Kenneth	Arkansas State University -- retired
Bennett	J. Edward	Arkansas State University
Bhuvaneswaran	C.	University of Arkansas/Medical Sciences
Bragg	Jimmy D.	Henderson State University
Bragg	Ann T.	Garland County Community College
Braithwaite	Edwin S.	Cedarville College
Bramlett	Morris	University of Arkansas at Monticello
Brown	Art	University of Arkansas
Brown	William D.	University of Arkansas at Fayetteville
Brown	Nick	University of Arkansas at Monticello
Buchanan	Roger A.	Arkansas State University
Buchanan	Thomas	Westark Community College
Burnside	Gaylen	University of Arkansas at Little Rock
Bush	John	University of Arkansas at Little Rock
Cady	Susan	Arkansas State University
Cartwright	Michael E.	Arkansas Game & Fish Commission
Chapman	Stanley L.	University of Arkansas at Fayetteville
Chowdhury	Aslam H.	University of Arkansas at Pine Bluff
Cisar	Cindy	University of Arkansas at Fayetteville
Clayton	Frances E.	University of Arkansas at Fayetteville
Cloud	Gary	University of Arkansas
Cobb	Vincent A.	Ouachita Baptist University
Cochran	Betty G.	U.S. Forest Service
Collins	Joseph T.	University of Kansas
Cooksey	Lynita	Arkansas State University
Cordova	Robert M.	Cordco Consulting
Crisp, Jr.	Robert M.	University of Arkansas at Fayetteville
Crump	Betty	U.S.D.A., Forest Service
Culwell	Donald	University of Central Arkansas
Daniels	James T.	Southern Arkansas University / Tech Br.
Davies	David L.	University of Arkansas/Medical Sciences
Davis	Jerry W.	USDA, Forest Service
Desrochers	Patrick	University of Central Arkansas
Dholakia	Vipul	University of Arkansas at Pine Bluff
Dorris	Peggy Rae	Henderson State University
Doster	Robert H.	Ark. Highway & Transp. Dept.
Douglas	Marian	University of Arkansas at Little Rock
Duhart	Benjamin T.	University of Arkansas at Pine Bluff
Eichenberger	Rudolph J.	Southern Arkansas University
Eldridge	Hudson B.	University of Central Arkansas
Engelken	Robert	Arkansas State University
England	Don	Harding University
Epperson	Claude E.	University of Arkansas/Medical Sciences
Fiter	E. Kim	University of Arkansas/Medical Sciences
Fijan	Nikola	University of Arkansas at Pine Bluff
Fitzpatrick	Sheldon	University of Arkansas at Pine Bluff
Floyd	E. P. (Perk)	U.S. Public Health Service
Foti	Thomas L.	Natural Heritage Commission
Freeman	Donald W.	USDA-University of Arkansas at Pine Bluff
Gagen	Charlie	Arkansas Tech University
Gentry	Joe P.	Arkansas Science & Technology Authority
Gergerich	Rose	University of Arkansas at Fayetteville
Getz	Elizabeth M.	University of Central Arkansas
Gildseth	Wayne	Southern Arkansas University
Gilmore	David F.	Arkansas State University
Goss	Crissy Patterso	
Gray	Wayne L.	University of Arkansas/Medical Sciences
Green	Reid	U.S. Geological Survey
Griggs	Gaston	John Brown University
Guo	Yanfei	University of Arkansas at Monticello
Hanebrink	Earl L.	Arkansas State University -- retired
Harris	John L.	Arkansas Highway & Transportation Dept.
Harvey	Michael J.	Tennessee Tech University
Hawk	Roger M.	University of Arkansas at Little Rock
Henson	Stanley	Arkansas Tech University
Herbert	Kristine	Westark Community College
Hilburn	Larry R.	Black River Technical College
Hinck	Larry	Arkansas State University
Hite	Maxine R.	
Hlass	Lisa J.	U.S. Forest Service

LAST NAME	FIRST MI	INSTITUTION
Holt	Anthony	Arkansas State University
Hood	William G.	University of Arkansas at Little Rock
Huang	Feng Hou	University of Arkansas at Fayetteville
Huffman	Jannie	Arkansas State University
Huggins	Julie A.	East Arkansas Community College
Huss	Martin	Arkansas State University
Hyatt	Philip E.	USDA, Forest Service
Igietseme	Joseph U.	University of Arkansas/Medical Sciences
Ison	Celia	University of Nebraska
Jalaluddin	M. D.	University of Arkansas at Pine Bluff
Jamieson	David	Ark. St. Univ.-Beebe/Newport
Jeffries	Douglas L.	University of the Ozarks
Jenness	Jeff	Arkansas State University
Jimerson	David	Arkansas State University
Johnson	Ronald	Arkansas State University
Johnson	James E.	University of Arkansas at Fayetteville
Johnson	Michael L.	Nettleton High School
Johnson	Hugh	Southern Arkansas University
Johnson	George P.	Arkansas Tech University
Jolivet	Freddie B.	Southern Jr. High School
Jordon	Thurman O.	Arkansas Audubon Society
Justice	Jay	Ark. Dept. Pollution Control & Ecology
Kane	Cynthia J.M.	Univ. of Arkansas for Medical Sciences
Karlin	Alvan A.	University of Arkansas at Little Rock
Karnes	Mark	The Ross Foundation
Kehler	Philip L.	University of Arkansas at Little Rock
Kennedy	Bud	Arkansas State University
Kirkconnell	Scott W.	Arkansas Tech University
Kleve	Maurice G.	University of Arkansas at Little Rock
Kluender	Richard	University of Arkansas at Monticello
Knight	Frank M.	University of the Ozarks
Knighten	Pat	Arkansas Game & Fish Commission
Koepp	Roger E., III	University of Arkansas at Fayetteville
Kopper	Randall A.	Hendrix College
Kral	Timothy	University of Arkansas at Fayetteville
Lanza	Janet	University of Arkansas at Little Rock
Lavers	Norman	Arkansas State University
Lindquist	David	University of Arkansas at Little Rock
Linnstaedter	Jerry L.	Arkansas State University
Lockhart	Brian	University of Arkansas at Monticello
Lockley	Judy	Marked Tree Public Schools
Lortz	David	University of Arkansas at Monticello
Lynch	Thomas J.	University of Arkansas at Little Rock
Malasri	Siripong	Christian Brothers University
Manion	Jerry	University of Central Arkansas
Marshall	John E.	Biotechnical Services, Inc.
Matthews	H. Michael	Henderson State University
McAllister	Chris T.	Veterans Affairs Medical Center
McAllister	Russell B.	Ark. Dept. Pollution Control & Ecology
McConnell	Rose	University of Arkansas at Monticello
McDaniel	V. Rick	Arkansas State University
Meeks	David	Westark Community College
Mehta	Rahul	University of Central Arkansas
Meyer	Richard	University of Arkansas at Fayetteville
Mink	Lawrence A.	Arkansas State University
Mitchell	Richard S.	Arkansas State University
Mittelstaedt	Roberta A.	National Center for Tox. Research
Mittelstaedt	James S.	Pines Technical College
Montague	Warren	U.S. Forest Service
Moore	Phillip	Arkansas Highway & Transportation Dept.
Moore	Jewel	University of Central Arkansas
Morgans	Leland F.	University of Arkansas at Little Rock
Moss	Linda	
Mwasi	Lawrence M.	University of Arkansas at Pine Bluff
Nagappa	H. Y.	University of Arkansas at Pine Bluff
Nave	Paul M.	Arkansas State University
Neal	Joseph C.	U. S. Forest Service
Nelson	Thomas	Arkansas Tech University
Nicholson	William F.	University of Arkansas at Monticello
Nordeen	Russell	University of Arkansas at Monticello
O'Brien	Timothy J.	University of Arkansas/Medical Sciences
Oosterhuis	Derrick M.	University of Arkansas at Fayetteville
Palmer	Bryan D.	Henderson State University
Parsons	Barbara	University of Arkansas at Little Rock
Paulissen	Mark A.	McNeese State University
Peck	John D.	University of Central Arkansas
Pendergrass	Paula B.	Arkansas Tech University
Pennington	Carlos H.	USAE Waterways Experiment Station

Secretary's Report

LAST NAME	FIRST MI	INSTITUTION	LAST NAME	FIRST MI	INSTITUTION
Penor	Joseph R.	University of Arkansas at Little Rock	Dale, Jr.	Edward E.	University of Arkansas at Fayetteville
Peterson	James C.	U.S. Geological Survey	Darsey	Jerry A.	University of Arkansas at Little Rock
Pigg	Jimmie	Oklahoma Dept. of Environmental Quality	Erf	Gisela	University of Arkansas at Fayetteville
Plummer	Michael V.	Harding University	Farris	Jerry L.	Arkansas State University
Posey	William R., II	Arkansas State University	Glover	Mattie	University of Arkansas at Pine Bluff
Posey	Alan F.	University of Arkansas at Pine Bluff	Griffin	Edmond E.	University of Central Arkansas
Price	Mazo	University of Arkansas at Pine Bluff	Johnston	Perry Max	University of Arkansas at Fayetteville
Rasmussen	James A.	Southern Arkansas University	Marsh	Daniel L.	Henderson State University
Reach	Darryl K.	University of Arkansas at Little Rock	McMasters	Dennis W.	Henderson State University
Reeve	Scott W.	Arkansas State University	Nisbet	Alex R.	Ouachita Baptist University
Richards	Edward L.	Arkansas State University	Orr	Clifton	University of Arkansas at Pine Bluff
Richardson	Dennis J.	Quinnipiac College	Price	Alan D.	Ark. Dept. Pollution Control & Ecology
Rosen	Joe	University of Central Arkansas	Sharrah	Paul C.	University of Arkansas at Fayetteville
Runge	Steven W.	University of Central Arkansas	Tendeku	Felix K.	University of Arkansas at Pine Bluff
Rupe	John	University of Arkansas at Fayetteville	Timmerman	Lorraine	Van-Cove High School
Russell, Jr.	William A.	University of Arkansas/Medical Sciences	Timmerman	Rudy	Rich Mountain Community College
Sanders	Terry A.	Taylor High School	Watson	Robert L.	University of Arkansas at Little Rock
Sciefes	Charles J.	University of Arkansas at Fayetteville	Willingham	William M.	University of Arkansas at Pine Bluff
Sealand	John A.	University of Arkansas at Fayetteville			
Setliff	Frank L.	University of Arkansas at Little Rock			
Shade	Elwood B.	University of Arkansas at Monticello			
Shaikh	Ali U.	University of Arkansas at Little Rock			
Sharp	J. Craig	Univ. of Central Arkansas			
Shepherd	William H.	Arkansas Natural Heritage Comm.			
Siegel	Samuel	University of Arkansas at Fayetteville			
Sifford	Dewey H.	Arkansas State University			
Simon	Scott	Arkansas Natural Heritage Commission			
Simpson	Kim	Arkansas Children's Hospital			
Skinner	Robert	University of Arkansas/Medical Services			
Smith	Kimberly G.	University of Arkansas at Fayetteville			
Smith	Richard D.	Arkansas State University			
Smith, Jr.	Roy J.	U. S. D. A./Univ. of Arkansas			
Snow	L. Dale	Louisiana Tech University			
Snyder	David G.	University of Arkansas at Monticello			
Spiegel	Frederick W.	University of Arkansas at Fayetteville			
Standage	Richard W.	U. S. Forest Service			
Steward	T. W.	Union University			
Stoeckel	Joseph N.	Arkansas Tech University			
Sundell	Eric	University of Arkansas at Monticello			
Sunderland	John C.	Arkansas Game & Fish Commission			
Sustich	Andrew T.	Arkansas State University			
Swindell	Robert T.	University of Arkansas at Little Rock			
Taylor	William S.	University of Central Arkansas			
TeBeest	David O.	University of Arkansas at Fayetteville			
Tomer	D.S.	University of Central Arkansas			
Trauth	Stanley E.	Arkansas State University			
Trautwein	Norman	Arkansas State University			
Usrey	Zaron D.	U.S. Geological Survey			
Vanderpool	Staria	Arkansas State University			
Walker	Richard B.	University of Arkansas at Pine Bluff			
Walker	Stephen A.	Eastern Kentucky University			
Walsh	Gerald				
Wear	James O.	V.A. Medical Center			
Webb	Jerry	University of Arkansas at Monticello			
Weidemann	G. J.	University of Arkansas at Fayetteville			
Wennerstrom	Delores	Pulaski Academy			
Wiebers	Todd	Henderson State University			
Willhide	J. D.	Arkansas State University			
Williams	Philip	Arkansas State University			
Wilson, Jr.	Edmond W.	Harding University			
Wold	Donald C.	University of Arkansas at Little Rock			
Wolf	Duane C.	University of Arkansas at Fayetteville			
Woolverton	Heather L.	University of Central Arkansas			
Wright	Robert D.	University of Central Arkansas			
Wyatt	Bill	Arkansas State University			
Yaich	Karen	Arkansas Game & Fish Commission			
Yang	Chia C.	Arkansas Tech University			
Yang	Dominic T.	University of Arkansas at Little Rock			
York	J. Lyndal	University of Arkansas/Medical Sciences			
Young	David A.	Fayetteville Public Schools			
Zimmer	Steven W.	Arkansas Tech University			

SUSTAINING MEMBERS

Benson	Ann Marie	University of Arkansas/Medical Sciences
Bollinger	Julia Reed	Arkansas State University
Cleaveland	Malcolm K.	University of Arkansas at Fayetteville
Cole	David	Harding University

SPONSORING MEMBERS

Bates	Vernon	Ouachita Mtns. Biological Station
Bean	Judith A.	Harmony Grove High School
Braithwaite	Wilfred J.	University of Arkansas at Little Rock
England-Whaley	Lawana	Arkansas State University
Hardin	Joyce M.	Hendrix College
Rowe	Marsha	Stamps High School

LIFE MEMBERS

Anderson	Robbin C.	University of Arkansas at Fayetteville
Bacon	Edmond J.	University of Arkansas at Monticello
Chittenden	David	Arkansas State University
Cotton	Calvin	Geographics Silk Screening Co.
Dalske	Fred	University of Central Arkansas
Davis	Leo Carson	Southern Arkansas University
Dilday	Robert H.	University of Arkansas at Fayetteville
Draganjac	Mark	Arkansas State University
Edson	Jim	University of Arkansas at Monticello
England	Daniel R.	Southern Arkansas University
Evans	William L.	University of Arkansas at Fayetteville
Friborough	James H.	University of Arkansas at Little Rock
Fry	Arthur	University of Arkansas at Fayetteville
Geren	Collis R.	University of Arkansas at Fayetteville
Giese	John	Ark. Dept. of Pollution Control & Ecol.
Godwin	Walter E.	University of Arkansas at Monticello
Gunter	Joe M.	University of Arkansas at Monticello
Harp	George L.	Arkansas State University
Harp	Phoebe A.	Arkansas State University
Heidt	Gary A.	University of Arkansas at Little Rock
Helms	Ronnie	University of Arkansas at Fayetteville
Hemmati	Mostafa	Arkansas Tech University
Jacobs	Carol A.	
James	Douglas	University of Arkansas at Fayetteville
Johnson	Arthur A.	Hendrix College
Mattison	Donald R.	University of Pittsburgh
McDaniel	Roland E.	FTN Associates, Ltd.
Moore	Clementine	
Northrop	Gaylord M.	University of Arkansas at Little Rock
Palko	Tom	Arkansas Tech University
Peck	James H.	University of Arkansas at Little Rock
Rapp	Michael W.	University of Central Arkansas
Rickett	John D.	University of Arkansas at Little Rock
Robison	Henry W.	Southern Arkansas University
Saugey	David A.	U. S. Forest Service
Sewell	Stephen A.	University of Mississippi
Spears	Betty M.	Ouachita Mtns. Biological Station
Spears	Richard K.	Ouachita Mtns. Biological Station
Templeton	George E.	University of Arkansas at Fayetteville
Tucker	Gary	FTN Associates
Tumison	Renn	Henderson State University
Wickliff	James L.	University of Arkansas at Fayetteville
Wiley	Robert W.	University of Arkansas at Monticello

STUDENT MEMBERS

Akin	Jennifer	University of Arkansas at Fayetteville
Anslow	Patricia	U.S. Corps of Engineers

LAST NAME	FIRST MI	INSTITUTION
Ashburn	Charles	University of Arkansas at Little Rock
Baber	Connie	Henderson State University
Bangs	Gene Lee	University of Arkansas at Little Rock
Bearden	Stacy Lee	Arkansas State University
Brar	Mohanjeet Singh	University of Arkansas at Fayetteville
Bray, Jr.	James R.	Henderson State University
Briggler	Jeff	Univ. of Arkansas at Fayetteville
Buck	Gregory	Univ. of Arkansas at Fayetteville
Bullock	Daniel	Arkansas Tech University
Caster	Paul	Univ. of Arkansas at Little Rock
Clark	Murray R.	University of Arkansas at Little Rock
Clayton	Jeffrey E.	Univ. of Arkansas at Little Rock
Climer	Amber	University of Arkansas at Little Rock
Daniels	Perry A.	
Deaton	John	Westark Community College
Dukes	Rebecca	
Elder	Ginger	Arkansas State University
Eller	David	Henderson State University
Ezell	Thomas	University of Arkansas at Little Rock
Fisher	Rob	Henderson State University
Flores	Kenda	
Freeman	Leah	Arkansas State University
George	Steven G.	Northeast Louisiana University
Gillum	Russell	University of Arkansas at Little Rock
Golden	Tim	Henderson State University
Hargrave	Chad	Westark Community College
Harris	Kristi	Arkansas State University
House	Kelly L.	Garland Co. Comm. Coll./H.S.U.
Howe	Wilson	University of Arkansas at Little Rock
Howerton	Brad	Arkansas State University
Ishenberg	Seth B.	University of Arkansas at Fayetteville
Jiles	Denise	Arkansas State University
Jones	Kimberly Rhae	University of Arkansas at Fayetteville
Khan	Imran	Arkansas State University
Mauldin	Doug	University of Arkansas at Little Rock
McCloskey	Sue Ellen	University of Arkansas at Little Rock
Metcalf	Chris	Northeast Louisiana University
Milam	Cristin	Arkansas State University
Moore	Matthew T.	Arkansas State University
Moore	Donna	University of Arkansas at Fayetteville
Moore	Cindy	Westark Community College
Murai	Kaz	University of Arkansas at Little Rock
Persons	Cecil C.	University of Arkansas at Little Rock
Pringle	John	University of the Ozarks
Richards	Austin B.	Arkansas State University
Sanchez	Carlos	University of Arkansas at Little Rock
Scott	Amy	Henderson State University
Smith	Jerome V.	University of Arkansas at Little Rock
Smith	Anna	Henderson State University
Smith	Chris S.	University of Arkansas at Little Rock
Snider	D. H.	University of Arkansas at Little Rock
Stickel	Sara	Arkansas State University
Torrez	Sophia J.	Univ. of Arkansas at Fayetteville
Townsend	Teddy L.	University of Central Arkansas
Whitehead	Greg A.	Henderson State University
Williams	Gregg R.	Arkansas State University
Worley	Hilary J.	Arkansas State University
Yang	Zibin	University of Arkansas at Little Rock