

1993

## 77th Annual Meeting, 1993. Secretary's Report and Financial Statement

Academy Editors

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# ARKANSAS ACADEMY OF SCIENCE

## ANNUAL FINANCIAL STATEMENT

(1 JANUARY 1992 TO 31 DECEMBER 1992)

ANNUAL MEETING 2-3 APRIL 1993

HENDERSON STATE UNIVERSITY, ARKADELPHIA, AR

**George Harp**  
President

**James Peck**  
President-Elect

**John D. Rickett**  
Secretary

**Robert Wiley**  
Treasurer

NAAS Delegate

**Henry Robison**  
Historian

### Secretary's Report

#### FIRST BUSINESS MEETING

Members present: 23

1. President Art Johnson opened the meeting at 1132 hrs. by recognizing Dennis McMasters who introduced Dr. Joe Wright, Dean of Ellis College of Arts & Sciences to offer a formal welcome to the HSU campus.
2. President Johnson recognized the Secretary who called attention to available copies of the minutes from the 1992 Business Meeting and asked for corrections and comments (in writing) before the Second Business Meeting. The Secretary also asked members to keep the copy of the Academy Constitution attached to the minutes.
3. President Johnson recognized Treasurer Robert Wiley who distributed copies of the Academy's financial report and explained investments, earnings, and disbursements. He explained that this is the transition year for changing our fiscal year to 1 January - 31 December.

FUNDS		
Balance on 1 January 1992		21,373.85
Total Income (Page 2)	13,439.60	
Total Expenses (Page 3)	-12,178.91	
Balance for the Year	\$1,260.69	1,260.69
<b>TOTAL FUNDS AS OF 31 DECEMBER 1992</b>		<b>\$22,634.54</b>

#### DISTRIBUTION OF ACCOUNTS

Interest Bearing Checking Account (Union Bank and Trust Co., Monticello, AR)	2,271.12
Certificates of Deposit	
Dwight Moore Endowment (Heritage Bank - A Federal Savings Bank - Monticello - No. 508938 - 3.50% Int.)	2,045.70
Life Membership Endowment (Heritage Bank - A Federal Savings Bank - Monticello - No. 508910 - 3.50% Int.)	9,244.90

AAS Endowment (Heritage Bank - A Federal Savings Bank - Monticello - No. 509173 - 3.50% Int.)	5,527.72
AAS General CD 1 (Heritage Bank - A Federal Savings Bank - Monticello - No. 01-00509066 - 3.30% Int.)	2,245.10
AAS General CD 2 (Heritage Bank - A Federal Savings Bank - Monticello - No. 509181 - 3.50% Int.)	1,300.00
<b>TOTAL</b>	<b>\$22,634.54</b>

Respectfully Submitted

Robert W. Wiley, AAS Treasurer

#### FINANCIAL STATEMENT, ARKANSAS ACADEMY OF SCIENCE

INCOME: 1 January 1992 to 31 December 1992

1. INDIVIDUAL MEMBERSHIPS		
a. Regular	2,925.00	
b. Sustaining	460.00	
c. Sponsoring	150.00	
d. Life	400.00	
e. Associate	200.00	
	4,135.00	4,135.00
2. INSTITUTIONAL MEMBERSHIPS		2,000.00
3. PROCEEDINGS, LIBRARY SUBSCRIPTIONS		501.50
4. PROCEEDINGS, MISC. SALES (UAF)		2,352.45
5. PROCEEDINGS, PAGE CHARGES		2,550.00
6. ANNUAL MEETING		486.35
7. INTEREST		
a. Interest Bearing Checking Account	115.36	
b. Dwight Moore Endowment	100.68	
c. Life Membership Endowment	471.17	
d. AAS Endowment	218.45	
e. AAS General CD's	213.64	
	1,119.30	1,119.30
8. ENDOWMENT DONATIONS		
a. Dwight Moore Endowment	130.00	
b. AAS Endowment	165.00	
	295.00	295.00
<b>TOTAL INCOME</b>		<b>\$13,439.60</b>

#### FINANCIAL STATEMENT, ARKANSAS ACADEMY OF SCIENCE

EXPENSES: 1 January 1992 to 31 December 1992

1. AWARDS			
a. Brad Johnson (#589)	50.00		
b. Jay Sims (#590)	50.00		
c. John Peck, Plaques - Arkansas Science Talent Search (#591)	158.25		
d. Arkansas Junior Academy of Science (#588)	250.00		
e. Arkansas Science Fair Association (#587)	400.00		
	<hr/>	908.25	980.25
2. PROCEEDINGS			
a. Phillip's Litho (Vol. 45) (#586)	9,397.07		
b. Phillip's Litho (Vol. 45) (#593)	32.25		
c. Linda Lee, Editorial Consultant Vol. 45 (#584)	500.00		
	<hr/>	9,929.32	9,929.32
3. OFFICE EXPENSES			
a. President's Office Art Johnson (#596)	29.00		
b. Secretary's Office, John Rickett (#594)	398.63		
	<hr/>	427.63	427.63
4. ANNUAL MEETING EXPENSES (UAF)			
a. Conway Trophies & Awards (#585)	42.40		
b. Dr. Lincoln Brower (Speaker) (#592)	725.76		
	<hr/>	767.96	767.96
5. NEWSLETTERS			
a. UAM Department of Forest Resources (#582)	41.29		
b. UAM Department of Forest Resources (#599)	39.96		
	<hr/>	81.25	81.25
6. DUES			
a. National Association of Academies of Science (#581)		43.50	
7. MISCELLANEOUS			
a. Hendrix College, Refreshments (#598)		21.00	
TOTAL EXPENSES			<hr/>
			\$12,178.91

4. President Johnson recognized Historian Henry Robison who reported that this meeting is the 77th annual meeting of the Academy. Henderson State University hosted the meeting in 1941, 1968, 1982, and 1993.
5. President Johnson recognized *Proceedings* Editor Harvey Barton (and Stan Trauth, in cooperation) who reported that volume 46 is ready to be picked up at the registration desk. He also asked section chairs to collect manuscripts intended for publication. Trauth moved (2nd, Barton) that the Academy appropriate \$700 (to include \$200 in new appropriation for consultant's travel reimbursement) to support editorial consultation.
6. President Johnson recognized *Newsletter* Editor Dick Kluender (report given by Robert Wiley) for a report. Wiley explained that the Forest Resources Department at UAM helps support the *Newsletter*,

but in the event that support ceases, he moved (2nd, H. Robison) that the Academy appropriate \$800 to support the production of the *Newsletter*.

7. President Johnson read a letter from the Nominating Committee. Peggy Rae Dorris and Jim Daly are nominated for Vice President, and Stan Trauth is nominated for *Proceedings* Editor.
8. Johnson called for a report from the Science Education Committee, but none was available.
9. Johnson announced the members of the Auditing Committee (Alex Nisbet, Chair, Elwood Shade, and Harriett Jansma) and the Resolutions Committee (Joe Guenter, Chair, Mark Karnes, and Rudy Eichenberger).
10. Johnson recognized Mike Rapp who reported that the Arkansas Science Fair Association is active and submitted the following data on involvement:
 

Year	Cent	NCen	N.E.	N.W.	SCen	S.E.	S.W.	State	JrAcad
1987	100	150	115	192	150	135	143	243	67
1988	100	110	100	174	200	135	116	248	94
1989	210	94	85	169	150	125	0	199	65
1990	221	75	81	140	181	115	71	229	83
1991	200	70	99	132	164	124	72	219	62
1992	156	65	95	120	169	100	41	228	49
1993				134	169	152	106		

Rapp moved (2nd, Jim Peck) the Academy appropriate \$400 to support the regional science fairs during the next year. Rapp also reported that the Junior Academy is functioning well, and requested (for Pat Knighten, Director; 2nd, Jim Peck) the Academy appropriate \$250 to purchase awards for Junior Academy winners.

11. Johnson recognized John Peck who reported that the Westinghouse Science Talent Search is very active. Peck moved (2nd, G. Harp) the appropriation of \$200 to support this program.
12. Johnson called for reports on awards:
  - a. Mike Rapp reported that Melissa Mazumder won the Junior Academy competition last year.
  - b. Dennis McMasters explained that, at this meeting, first, second, and third place awards in both physical and life sciences at both undergraduate and graduate levels will be given. Sigma Xi is responsible for the graduate awards.
  - c. Johnson announced that the Arkansas Chapter of the Association of Women in Science will present an award.
  - d. Rapp explained plans being developed for the Academy to recognize the outstanding high school science teacher each year and moved (2nd, John Peck) acceptance (Appendix A).

13. Johnson recognized George Harp who announced plans not yet finalized for the 1994 meeting. Most probable is a meeting co-sponsored by University of Arkansas at Pine Bluff and National Center for Toxicological Research.
14. Johnson called for other items of old business. None.
15. Johnson called for new business items. None.
16. Johnson again recognized Dennis McMasters who announced places to eat lunch and that approximately 25 banquet tickets are still available. He also announced that Friday afternoon refreshments will be provided by AWIS, Arkansas Chapter.
17. Johnson recognized the current Academy officers and requested members express their appreciation to them.
18. President Johnson requested a motion to adjourn at 1210. So moved by G. Harp (2nd, H. Robison).

## SECOND BUSINESS MEETING

Members present: 51

1. President Johnson called the meeting to order at 1200 hrs. and recognized the Secretary who, having received no comments or corrections to them, requested approval of the minutes of the 1992 business meetings (2nd, G. Heidt). Passed, voice vote.
2. Johnson recognized Treasurer Wiley for a brief reference to copies of the financial report and Alex Nisbet, Chair of the Auditing Committee for a report. Nisbet reported that the financial statement prepared by Wiley was in good order and accurate. Acceptance of the report passed by voice vote.
3. Johnson again recognized the Secretary for a recap of the several requests for appropriations submitted at the first business meeting as follows:
  - a. \$700 for editorial consultation for *Proceedings*, vol. 47
  - b. \$800 for possible use for the *Newsletter*
  - c. \$400 for the Science Fair Association
  - d. \$250 for the Junior Academy of Science
  - e. \$200 for the Westinghouse Science Talent Search  
SUM: \$2350

Passed as a group by voice vote.

4. Johnson recognized M. Rapp for a restatement of the

proposed science teacher award to be begun next year by the Academy Passed by voice vote.

5. Johnson called for recognition of any new Academy members; none were present. He then asked life members to stand and be recognized.
6. Johnson recognized Joe Guenter, Chair of Resolutions Committee who submitted resolutions of thanks to all who helped make this meeting a success (Appendix B).
7. Johnson recognized Dennis McMasters for announcement of award winners as follows:

	<i>Undergraduate</i>	<i>Graduate</i>
life sciences		
first	Robert Cowherd, UALR	Anthony Hope, ASU
second	Mike Eckles, Hendrix	Walter Heckathorn, UAF
third	Connie Baber, HSA	Karen Stone, UALR
physical sciences		
first	E. E. Ward, UCA	T. H. Dhayagude, UAF
second	Mandy Prosser, Harding	Charles Byrd, UALR
third	Edward Boone, Harding	Lawrence Fitz, UAPB

8. Johnson recognized a representative from AWIS to present their awards. Linda Moss (ASU) won at the graduate level, and Robbin Long (UALR) won the undergraduate award.
9. Johnson asked for other old business by way of --
  - a. asking that volunteers for regional science fair directors notify Mike Rapp
  - b. encouraging that we cultivate productive interactions with the Arkansas Science Teachers Association (ASTA-1) and the Arkansas Science and Technology Authority (ASTA-2)
  - c. representatives from the various campuses take unclaimed copies of the *Proceedings* back with you
  - d. submit any memorabilia and historical information to Henry Robison
10. Johnson asked for any new business. Robert Watson (for Tome Lynch) announced the Science Education Committee will not meet.
11. Johnson restated that Peggy Rae Dorris and Jim Daly had been nominated for Vice President and Stan Trauth for *Proceedings* Editor. He also referred to the confusion of whether the new Editor would finish the retiring Editor's current term or begin a new five-year term. The executive Committee decided that the new Editor would begin a new five-year term. Johnson then called for any nominations from the floor for either office. None came. Robert Watson moved (2nd, James Peck) that Stan Trauth be elected by acclamation. Passed by voice vote. Paper ballots were then passed out for voting on Vice President.

Ballots were collected and counted by James Peck and John Rickett.

12. Johnson asked the members join in applauding those who presented papers at this meeting. Applause was also offered to AWIS for providing refreshments. Johnson distributed appreciation to all who had helped him over the past year.
13. Upon completion of ballot counting, Johnson announced the new Vice President was Peggy Rae Dorris.
14. Johnson then turned the gavel over to new President George Harp. Harp presented Art Johnson and Harvey Barton with plaques of appreciation of service.
15. Harp appointed a Constitution Committee of James Peck, Peggy Rae Dorris, and John Rickett to prepare guidelines for the filling of an unexpired officer's term and to consider adding the standing committees descriptions as by-laws to the Constitution. He also requested input from the membership in these matters.
16. Harp asked for announcements. Stan Trauth asked for all manuscripts to be submitted.
17. The meeting was adjourned at 1242 hrs.

--- Respectfully submitted  
John Rickett, Secretary  
28 April 1993

#### APPENDIX A

##### "Teacher Recognition Award - Proposal"

###### Background:

Many pre-college teachers devote time and energy to their profession and deserve recognition for their successful work. A number of organizations provide some recognition for outstanding science teachers in our state. The Arkansas Academy of Science can also provide encouragement and recognition through an award that stresses a particular emphasis of the Academy.

Teachers currently are recognized through their students' work presented through the Junior Academy of Science, Arkansas Science Talent Search, Junior Science and Humanities Symposium, and regional and state science fairs. The Arkansas Department of Education organizes a committee to select twelve state nominees (three each in the areas of elementary math, elementary science, secondary math, and secondary science) for the national

Presidential Teaching Awards, and four Arkansas winners are given \$7500 each to be spent on their classroom. In 1992, two previous Presidential Teaching Awardees from our state were chosen for the prestigious "Milliken Award" - a national (unrestricted) award of \$25,000. The Central Arkansas Section of the American Chemical Society presents an award of \$150 each year to the "high school chemistry teacher-of-the-year" and treats the teacher and his/her family at its annual awards banquet. Arkansas members of the National Association of Biology Teachers and American Geological Institute also nominate teachers for national awards.

Any award or recognition, whether a certificate, a meal, or a monetary award, shows an appreciation for the work of the teachers and serves to encourage those who are fully dedicated to their students. The Academy can join those other organizations that are recognizing the work of excellent teachers by selecting one or more recipients of an annual award. Current resources of the Academy are sufficient to support a small annual award. The Academy's Development Committee could seek additional contributions as needed.

###### Proposal:

The Arkansas Academy of Science will present an annual "Outstanding Teacher Award" to a pre-college science teacher in our state whose example and encouragement to students has facilitated the students' research and careers in science. The award may be given on the basis of excellence for work during the previous year or for work done over a career of teaching. The Science Education Committee is charged with the task of selecting the awardee and will prepare a suitable certificate or plaque for presentation at the spring Academy meeting. The recognition also will include a monetary award of \$100. The Science Education Committee is encouraged to select the awardee sufficiently in advance of the spring meeting to invite the awardee and his/her family to the Academy's banquet, at which time the award will be presented. Further, the Science Education Committee will arrange for suitable publicity recognizing the awardee and will ask the Arkansas Science Teachers Association to announce the award at its annual meeting the following fall. Should additional funding be obtained, the number of annual awards could be increased to as many as five per year.

--- Mike Rapp

#### APPENDIX B

##### RESOLUTIONS

RESOLUTIONS FOR THE 77TH ANNUAL MEETING OF THE ARKANSAS ACADEMY OF SCIENCE, HENDERSON STATE UNIVERSITY:

**BE IT RESOLVED THAT:** the members of the Arkansas Academy of Science express their sincere appreciation to the faculty, staff, and students of Henderson State University for hosting our 1993 meeting. We especially thank Dennis McMasters and the local arrangements committee for all of their efforts on behalf of the membership to make this meeting such a success. Thanks also go to the individual presenters, faculty advisors, and judges of student papers. Sincere appreciation goes to Arthur Johnson, President; George Harp, President-Elect; Michael Rapp, Past President, and the remaining members of the Executive Committee -- James Peck, Vice President; John Rickett, Secretary; Robert Wiley, Treasurer; Stan Trauth, *Proceedings* Editor; Dick Kluender, *Newsletter* Editor; and Henry Robinson, Historian.

**BE IT RESOLVED THAT:** the members of the Arkansas Academy of Science express sincere appreciation to those working with the various associated activities of the Academy and the meeting -- to Pat Knighten, Joyce Hardin, and Marian Douglas for directing the Junior Academy of Science; to Mike Rapp for directing the Arkansas Science Fair Association; to Tom Palko for directing the Westinghouse Scient Talent Search; and to Kathryn Schinn, Veryl Board, Larry Mink, Laurin Wheeler, John Hardee, Jim Edson, and Tim Daniels for directing the regional science fairs. We further express our appreciation to the meeting section chairs -- Clifton Orr, Biomedical; J. D. Wilhide, Vertebrate Zoology; James Rasmussen, Botany; John Aardee, Biochemistry & Organic Chemistry; Jules Mollere, Physics, Math & Geology; James Graham, Inorganic & Physical Chemistry; Carson Davis, Physics & Engineering; Billy Teague, Aquatic & Environmental Biology; Julia Bollinger, Vertebrate & Invertebrate Zoology; Ann Bragg, Microbiology & Molecular Biology; and Jane Dunn, Science Education. Finally we thank Richard Hoover for this most interesting presentation of "The Unseen World" concluding the banquet.

**BE IT RESOLVED THAT:** the members of the Arkansas Academy of Science recognize Harvey Barton for his work as Editor of the *Proceedings*, and we thank him for his services.

Joe Guenter  
 Mark Karnes  
 Rudy Eighenberger

**MEMBERS 1993**

LAST NAME	FIRST MI	INSTITUTION
Adams	Al	Univ. of Arkansas at Little Rock
Addison	Stephen R.	University of Central Arkansas
Al-Khyri	Jameel M.	University of Arkansas/Fayetteville
Al-Zaaim	Sam	University of Arkansas at Little Rock
Allen	Robert T.	University of Arkansas at Fayetteville
Annett	Cynthia	University of Arkansas at Fayetteville
Bacon	Robert	University of Arkansas at Fayetteville

LAST NAME	FIRST MI	INSTITUTION
Bailey	Claudia	University of Arkansas at Fayetteville
Baker	Max L.	University of Arkansas/Medical Sciences
Ball	Kenneth M.	El Dorado Public Schools
Baltosser	William H.	University of Arkansas at Little Rock
Barber	Gwen	
Basford	Adelphia M.	Henderson State University
Bass	Ralva	University of Central Arkansas
Bates	Vernon	
Beadies	John Kenneth	Arkansas State University
Bennett	J. Edward	Arkansas State University
Benson	Ann Marie	University of Arkansas/Medical Sciences
Bhuvanewaran	C.	University of Arkansas/Medical Sciences
Bickle	Elaine	Univ. of Arkansas at Little Rock
Bowman	Leo H.	Arkansas Tech University
Bragg	Jimmy D.	Henderson State University
Bragg	Ann T.	Garland County Community College
Braithwaite	Wilfred J.	University of Arkansas at Little Rock
Breen	David	Mississippi County Community College
Brown	Art	University of Arkansas
Brown	William D.	University of Arkansas at Fayetteville
Buchanan	Roger A.	Arkansas State University
Burnside	Gaylen	University of Arkansas at Little Rock
Cady	Susan	Arkansas State University
Caldwell	Jody	University of Arkansas at Little Rock
Chapman	Stanley L.	University of Arkansas at Fayetteville
Cisar	Cindy	University of Arkansas at Fayetteville
Clayton	Frances E.	University of Arkansas at Fayetteville
Cochran	Betty S.	U.S. Forest Service
Cohon	Richard R.	Arkansas Tech University
Cole	David	Harding University
Collins	Joseph T.	University of Kansas
Compadre	R. Lilia	University of Arkansas/Medical Sciences
Cordova	Robert M.	Cordco Consulting
Crisp, Jr.	Robert M.	University of Arkansas at Fayetteville
Culwell	Donald	University of Central Arkansas
Dalske	Fred	University of Central Arkansas
Daly	James J.	University of Arkansas/Medical Sciences
Daniels	James T.	Southern Arkansas University/Tech Br.
Darsey	Pat	Holy Souls Catholic School
Daster	Robert H.	Arkansas Highway & Transp. Dept.
David	Stanley N.	Arkansas State University
Davies	David L.	University of Arkansas/Medical Sciences
Davis	Jerry W.	USDA, Forest Service
Demarest	Jeffery R.	University of Arkansas at Fayetteville
Desrochers	Patrick	Univ. of Central Arkansas
Doran	Ronald H.	Harding University
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
Dunn	Jane	Henderson State University
Dussourd	David	University of Central Arkansas
Edwards	Richmond	
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
Fifer	E. Kim	University of Arkansas/Medical Sciences
Fijan	Nikola	Univ. of Arkansas at Pine Bluff
Fletcher	M. Doug	Riceland Foods Inc. (ASU)
Floyd	E. P. (Perk)	U.S. Public Health Service
Foti	Thomas L.	Natural Heritage Commission
Francis	Paul B.	University of Arkansas at Monticello
Freiley	Kenneth	University of Central Arkansas
Fuller	Gary	University of Arkansas at Little Rock
Gagen	Charlie	Arkansas Tech University
Gaiser	Jack	University of Central Arkansas
Gentry	Joe P.	Arkansas Science & Technology Authority
George	Michael	Arkansas State University
Gildseth	Wayne	Southern Arkansas University
Gilmour	John T.	University of Arkansas at Fayetteville
Goforth	Calvin	Univ. of Arkansas at Fayetteville
Goforth	R. R.	University of Arkansas at Fayetteville
Gooch	Jan W.	Georgia Institute of Technology
Gray	Wayne L.	University of Arkansas/Medical Sciences
Green	Reid	U.S. Geological Survey
Griffin	Edmond E.	University of Central Arkansas
Griggs	Gaston	John Brown University
Gross	Mark	University of Arkansas at Little Rock
Hanebrink	Earl L.	Arkansas State University
Hanson	Richard H.	University of Arkansas at Little Rock
Harris	John L.	Arkansas Highway & Transportation Dept.

LAST NAME	FIRST MI	INSTITUTION	LAST NAME	FIRST MI	INSTITUTION
Harvey	Michael J.	Tennessee Tech University	Nehus	Nathaniel	Ark. Dept. Pollution Control & Ecology
Hawk	Roger M.	University of Arkansas at Little Rock	Nelson	Thomas	Arkansas Tech University
Hemmati	Mustfa	Arkansas Tech University	Nordeen	Russell	University of Arkansas at Monticello
Henson	Stanley	Arkansas Tech University	Olson	Larry A.	Arkansas State University
Hinck	Larry	Arkansas State University	Oosterhuis	Derrick M.	University of Arkansas at Fayetteville
Hirschi	Dean	University of Central Arkansas	Orr	Clifton	University of Arkansas/Pine Bluff
Hite	Maxine R.		Owen	Wilbur	University of Central Arkansas
Hlass	Lisa J.	U.S. Corps of Engineers	Owens	Don R.	University of Arkansas/Little Rock
Hodges	Howard	University of Arkansas at Little Rock	Palmer	Bryan D.	Henderson State University
Hood	William G.	University of Arkansas at Little Rock	Parsons	Barbara	Univ. of Arkansas at Little Rock
Hoyt, Jr.	Arthur	University of Central Arkansas	Paulissen	Leo J.	University of Arkansas at Fayetteville
Huang	Feng Hou	University of Arkansas at Fayetteville	Paulissen	Mark A.	McNeese State University
Hudson	M. Keith	University of Arkansas at Little Rock	Peck	John D.	University of Central Arkansas
Huey	Jim	University of Arkansas at Monticello	Pennington	Carlos H.	USAE Waterways Experiment Station
Hughes	Charles A.	Arkansas State University	Peterson	Charlotte A.	Veterans Admin. Hospital
Hunkapillar	Paul	Phillips County Community College	Piper	Ed	University of Arkansas
Hurlburt	Barry K.	Univ. of Arkansas for Medical Sciences	Plummer	Michael V.	Harding University
Hyatt	Philip e.	USDA, Forest Service	Pond	Roberta Dee	
Igietseme	Joseph U.	University of Arkansas/Medical Sciences	Pray	Harold	University of Central Arkansas
Ison	Celia		Price	Mazo	University of Arkansas at Pine Bluff
Jalaluddin	M. D.	University of Arkansas at Pine Bluff	Prince	Denver L.	University of Central Arkansas
Jansma	Harriet	University of Arkansas at Fayetteville	Quartucci	Gregory M.	Burns & McDonnell
Jeffries	Douglas L.	University of the Ozarks	Ramaprasad	S.	University of Arkansas/Medical Sciences
Johnson	Ronald	Arkansas State University	Rasmussen	James A.	Southern Arkansas University
Johnson	James E.	University of Arkansas at Fayetteville	Rettig	Jeff H.	George Washington National Forest
Johnson	Michael I.	Nettleton High School	Reynolds	Ruby S.	University of the Ozarks, retired
Johnson	Hugh	Southern Arkansas University	Rodgers	Michael R.	Ark. Dept. Pollution Control & Ecology
Johnson	George P.	Arkansas Tech University	Roe	Amy L.	Nat. Center for Toxicological Research
Jones	Suzanne M.	Arkansas State University	Roop	Marty	University of Arkansas/Medical Sciences
Justice	Jay	Ark. Dept. Pollution Control & Ecology	Root	Peggy	Southern Arkansas University
Kannan	Ragupathy	University of Arkansas at Fayetteville	Rowe	Marsha	Stamps High School
Kaplan	Arnold		Runge	Steven W.	University of Central Arkansas
Karlin	Alvan A.	University of Arkansas at Little Rock	Russert-Kraemer	Louise	University of Arkansas at Fayetteville
Karnes	Mark	The Ross Foundation	Sanchez	Rosa I.	University of Arkansas/Medical Sciences
Kehler	Phillip L.	University of Arkansas at Little Rock	Sanders	Terry A.	Taylor High School
Khan	Shaheen	University of Arkansas at Pine Bluff	Sealander	John A.	University of Arkansas at Fayetteville
Kilambi	Raj V.	University of Arkansas at Fayetteville	Setliff	Frank L.	University of Arkansas at Little Rock
Kleve	Maurice G.	University of Arkansas at Little Rock	Seward	Larry	John Brown University
Kluender	Richard	University of Arkansas at Monticello	Shade	Elwood B.	University of Arkansas at Monticello
Knight	Frank M.	University of the Ozarks	Shaikh	Ali U.	University of Arkansas at Little Rock
Koeppe	Roger E., III	University of Arkansas at Fayetteville	Shanks	Robert B.	University of Arkansas at Little Rock
Komoroski	Richard A.	University of Arkansas/Medical Sciences	Shepherd	William H.	Arkansas Natural Heritage Comm.
Kopper	Randall A.	Hendrix College	Siegel	Samuel	University of Arkansas at Fayetteville
Korfmacher	Walter A.	National Ctr. for Toxicological Research	Sifford	Dewey H.	Arkansas State University
Kral	Timothy	University of Arkansas at Fayetteville	Simpson	Kim	Arkansas State University
Krause	Paul	University of Central Arkansas	Slatton	Tom	NLR High School, East Campus
Kreie	Jack C.	Fayetteville Public Schools	Smith	Edwin B.	University of Arkansas at Fayetteville
Lane	Forrest E.	University of Arkansas at Fayetteville	Smith	Kimberly G.	University of Arkansas at Fayetteville
Lavers	Norman	Arkansas State University	Smith, Jr.	Roy J.	U. S. D. A./Univ. of Arkansas
Lejeune	J. K.	Red River Technical College	Snow	L. Dale	Louisiana Tech University
Lee	Linda A.	Pocahontas Middle School	Snyder	David G.	University of Arkansas at Monticello
Lewis	Carolyn	Arkansas Tech University	Snyder	W. Sherman	Arkansas Natural Heritage Commission
Lindquist	David	University of Arkansas at Little Rock	Speight	Stan	Arkansas State Parks Department
Lockhart	J. Mitchell	University of Arkansas at Fayetteville	Spiegel	Frederick W.	University of Arkansas at Fayetteville
Lockhart	Brian	University of Arkansas at Monticello	Standage	Richard W.	U. S. Forest Service
Lortz	David	Univ. of Arkansas at Monticello	Steele	Kenneth F.	University of Arkansas at Fayetteville
Lynch	Thomas J.	University of Arkansas at Little Rock	Steward	T. W.	Arkansas State University
Mackey	James	Harding University	Sutherland	Mark	Hendrix College
Malasri	Siripong	Christian Brothers University	Sutton	Keith	Hendrix College
Manion	Jerry	University of Central Arkansas	Tappe	Phil	University of Arkansas at Monticello
Matthews	H. Michael	Henderson State University	Taylor	William S.	University of Central Arkansas
Mazumder	M. K.	University of Arkansas at Little Rock	TeBeest	David O.	Univ. of Arkansas at Fayetteville
McAllister	Chris T.	Veterans Affairs Medical Center	Thompson	Lyell	University of Arkansas at Fayetteville
McAllister	Russell B.		Thurmond	John T.	University of Arkansas at Little Rock
McCarty	Clark W.	Ouachita Baptist University (retired)	Timmerman	Dan	Arkansas State University
McConnell	Rose	University of Arkansas at Monticello	Timmerman	Lorraine	Van-Cove High School
McDaniel	V. Rick	Arkansas State University	Timmerman	Rudy	Rich Mountain Community College
McLemore	John A.	USDA, Forest Service	Trauth	Stanley E.	Arkansas State University
McLeod	Paul	University of Arkansas at Little Rock	Tull	Dalena	University of Central Arkansas
McMasters	Dennis W.	Henderson State University	Tumilson	Renn	Henderson State University
McRae	Tammie	National Ctr. for Toxicological Research	Vere	Victor K.	Arkansas Tech University
Mehta	Rahul	University of Central Arkansas	Walker	Richard B.	University of Arkansas at Pine Bluff
Mink	Lawrence A.	Arkansas State University	Walker	Stephen A.	Eastern Kentucky University
Mitchell	Richard S.	Arkansas State University	Wankum	David L.	University of Arkansas at Little Rock
Mittelstaedt	Roberta A.	National Center for Tox. Research	Weaver	K. Casey	University of Central Arkansas
Moody	Bonnie	Henderson State University	Webb	Jerry	University of Arkansas at Monticello
Moore	Phillip	Arkansas Highway & Transportation Dept.	Weidemann	G. J.	University of Arkansas at Fayetteville
Moore	Jewel	University of Central Arkansas	Wennerstrom	David	University of Arkansas/Medical Sciences
Morgans	Leland F.	University of Arkansas at Little Rock	Wennerstrom	Delores	Pulaski Academy
Moss	Linda		Wilhide	J. D.	Arkansas State University
Murphy	Michael	Arkansas State University	Williams	Richard A.	University of Arkansas/Monticello
Mwasi	Lawrence M.	Univ. of Arkansas at Pine Bluff	Willis	Rebecca L.	Southern Arkansas University
Neal	Joseph C.	University of Arkansas at Fayetteville	Wilson, Jr.	Edmond W.	Harding University

LAST NAME	FIRST MI	INSTITUTION
Wolf	Duane C.	University of Arkansas at Fayetteville
Woolverton	Heather L.	University of Central Arkansas
Wright	Robert D.	University of Central Arkansas
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 Publis Schools
Zachry	Doy L.	University of Arkansas/Fayetteville
Zimmer	Steven W.	Arkansas Tech University

## SPONSORING MEMBERS

Bradley	Richard	Univ. of Arkansas at Little Rock
England-Whaley	Lawana	Arkansas State University
Glover	Mattie	University of Arkansas at Pine Bluff
Howick	Lester C.	University of Arkansas at Fayetteville
Sharrah	Paul C.	University of Arkansas at Fayetteville

## SUSTAINING MEMBERS

Barton	Harvey E.	Arkansas State University
Bean	Judith A.	Harmony Grove High School
Board	Veryl	Arkansas College
Bollinger	Julia Reed	Arkansas State University
Cleaveland	Malcolm K.	University of Arkansas at Fayetteville
Dale, Jr.	Edward E.	University of Arkansas at Fayetteville
Darsey	Jerry A.	University of Arkansas at Little Rock
Farris	Jerry L.	Arkansas State University
Gandy	Lisa C.	FTN Associates
Hardin	Joyce M.	Hendrix College
Johnston	Perry Max	University of Arkansas at Fayetteville
Marsh	Daniel L.	Henderson State University
McDaniel	Roland E.	FTN Associates, Ltd.
Meyer	Richard	University of Arkansas at Fayetteville
Nisbet	Alex R.	Ouachita Baptist University
Peacock	Lance	The Arkansas Nature Conservancy
Price	Alan D.	Ark. Dept. Pollution Control & Ecology
Rothrock, III	Perry C.	University of Arkansas/Medical Sciences
Sundell	Eric	University of Arkansas at Monticello
Sustich	Andrew T.	Arkansas State University
Watson	Robert L.	University of Arkansas at Little Rock
Wear	James O.	Veterans Admin., No. Little Rock Div.
Willingham	William M.	University of Arkansas at Pine Bluff

## LIFE MEMBERS

Anderson	Robbin C.	University of Arkansas at Fayetteville
Bacon	Edmond J.	University of Arkansas at Monticello
Chittenden	David	Arkansas State University
Davis	Leo Carson	Southern Arkansas University
Dilday	Robert H.	University of Arkansas at Fayetteville
Draganjac	Mark	Arkansas State University
England	Daniel R.	Southern Arkansas University
Evans	William L.	University of Arkansas at Fayetteville
Fribourgh	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
Guenter	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
Jacobs	Carol A.	
James	Douglas	University of Arkansas at Fayetteville
Johnson	Arthur A.	Hendrix College
Mattison	Donald R.	University of Pittsburgh
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
Saugy	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	U. S. Forest Service
Wickliff	James L.	University of Arkansas at Fayetteville
Wiley	Robert W.	University of Arkansas at Monticello

## STUDENT MEMBERS

LAST NAME	FIRST MI	INSTITUTION
Adair	Robert E.	University of Arkansas/Fayetteville
Allen	Michelle	University of Arkansas at Little Rock
Bean	Ashley	Hendrix College
Caster	Paul	Univ. of Arkansas at Little Rock
Clark	Mark	Henderson State University
Davis	Angela Wynette	Univ. of Arkansas at Pine Bluff
Ekworomadu	Charles	Univ. of Arkansas for Medical Sciences
Everett	William R.	Univ. of Arkansas at Fayetteville
Fletcher, III	Thomas M.	University of Arkansas/Medical Sciences
Garner	Heath	Arkansas State University
Golden	Kevin D.	University of Arkansas at Fayetteville
Haider	Neena	Arkansas State University
Hansen	Debra	
Heckathorn, Jr.	Walter Dean	University of Arkansas
Huskins	Mark W.	Arkansas Tech University
Isenberg	Seth B.	University of Arkansas at Fayetteville
King	Chris	University of Arkansas
Mayes	Eric	Arkansas State University
McMillan	Pamela J.	University of Arkansas/Medical Sciences
Mintz	Angel	W. R. Grace & Co.
Mooney	Donna	University of Arkansas/Little Rock
Murray	Susan	Arkansas Natural Heritage Comm.
O'Brien	Timothy J.	University of Arkansas/Medical Sciences
Ryan	John M.	University of Arkansas/Fayetteville
Sims	Jay	University of Arkansas/Little Rock
Smith	Jerome V.	Univ. of Arkansas at Little Rock
Weyer	Dora	University of Arkansas at Fayetteville
Wilkins	Phillip K.	Arkansas State University
Williams	Michelle	University of Arkansas/Little Rock
Willis	Jason	University of Arkansas at Little Rock
Withgott	James H.	University of Arkansas at Fayetteville