

1994

78th Annual Meeting, 1994. Secretary's Report and Financial Statement

Academy Editors

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ARKANSAS ACADEMY OF SCIENCE

ANNUAL FINANCIAL STATEMENT

(1 JANUARY 1993 TO 31 DECEMBER 1993)

ANNUAL MEETING 8-9 APRIL 1994
ARKANSAS STATE UNIVERSITY, JONESBORO, 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: 28

President George Harp called the meeting to order at 1137 hrs.

- Harp recognized Lynita Cooksey to make announcements concerning the meeting (mixer location, banquet ticket availability, Sigma Xi breakfast location and time, and ASU personnel who are available to help with problems). Cooksey also introduced Dr. Richard McGhee, Dean of the College of Arts and Sciences, who extended the official welcome.
- Harp recognized John Rickett, Secretary, who presented copies of minutes from the two 1993 Annual Business Meetings and asked for comments and/or corrections in writing before the second business meeting. Rickett moved (2nd: Tom Palko) the acceptance of the minutes. Rickett also reported on membership categories and asked for advice regarding retention of arrears members. Stan Trauth suggested the Secretary send a reminder letter to arrears members.
- Harp recognized Henry Robison, Historian, for a historical report. This is the 78th annual meeting, and the sixth time at Arkansas State University. Other meetings here occurred in 1952, 1967, 1973, 1980, 1990.

	FUNDS	
Balance on 1 January 1993		22,634.54
Total Income (Page 2)	12,442.37	
Total Expenses (Page 3)	-12,202.67	
Balance for the Year	\$239.70	239.70
TOTAL FUNDS AS OF 31 DECEMBER 1993		\$22,874.24

DISTRIBUTION OF ACCOUNTS

Interest Bearing Checking Account (Union Bank and Trust Co.,
Monticello, AR) 5,211.97

Certificates of Deposit

Dwight Moore Endowment (Heritage Bank - A Federal Savings Bank - Monticello - No. 506334.1 - 3.55% Int.)	2,232.43
Life Membership Endowment (Heritage Bank - A Federal Savings Bank - Monticello - No. 508910 - 3.55% Int.)	9,562.72
AAS Endowment (Heritage Bank - A Federal Savings Bank - Monticello - No. 509173 - 3.55% Int.)	5,867.12
TOTAL	\$22,874.24

Respectfully Submitted

Robert W. Wiley, AAS Treasurer

FINANCIAL STATEMENT, ARKANSAS ACADEMY OF SCIENCE

INCOME: 1 January 1993 to 31 December 1993

1. INDIVIDUAL MEMBERSHIPS		
a. Regular	2,685.00	
b. Sustaining	400.00	
c. Sponsoring	60.00	
d. Life	150.00	
e. Associate	80.00	
	3,375.00	3,375.00
2. INSTITUTIONAL MEMBERSHIPS		2,200.00
3. PROCEEDINGS, LIBRARY SUBSCRIPTIONS		326.50
4. PROCEEDINGS, MISC. SALES (UAF)		2,141.37
5. PROCEEDINGS, PAGE CHARGES		2,562.50
6. ANNUAL MEETING		653.58
7. INTEREST		
a. Interest Bearing Checking Account	111.24	
b. Dwight Moore Endowment	91.73	
c. Life Membership Endowment	330.94	
d. AAS Endowment	199.40	
e. AAS General CD's	75.11	
	808.42	808.42
8. MISCELLANEOUS		55.00
9. ENDOWMENT DONATIONS		
a. Dwight Moore Endowment	120.00	
b. AAS Endowment	200.00	
	320.00	320.00
TOTAL INCOME		\$12,442.37

FINANCIAL STATEMENT, ARKANSAS ACADEMY OF SCIENCE

EXPENSES: 1 January 1993 to 31 December 1993

1. AWARDS			
a. Arkansas Science Fair Association (#604)	400.00		
b. Arkansas Junior Academy of Science (#605)	250.00		
c. Robert Cowherd (#606)	50.00		
d. Michael Eckles (#607)	25.00		
e. Connie Baber (#608)	25.00		
f. E. E. Ward (#609)	50.00		
g. Mandy Prosser (#610)	25.00		
h. Edward Boone (#611)	25.00		
i. Anthony Holt (#612)	50.00		
j. John Peck, Plaques - Arkansas Science Talent Search (#613)	165.08		
	1,065.08	1,065.08	
2. PROCEEDINGS			
a. Linda Lee, Editorial Consultant Vol. 46 (#602)	500.00		
b. Phillip's Litho (Vol. 46) (#614)	7,810.80		
c. Joy Trauth, Editorial Consultant Vol. 47 (#618)	500.00		
d. Federal Express (#619)	22.00		
e. Multigraphics - Reprint 54 copies Vol. 46 (#623)	1,667.76		
	10,500.56	10,500.56	
3. OFFICE EXPENSES			
a. Secretary's Office, John Rickett (#620)	415.06		
	415.06	415.06	
4. ANNUAL MEETING EXPENSES (HSU)			
a. George Harp, Plaques (#603)	81.22		
b. HSU Motor Pool (#617)	10.00		
	91.22	91.22	
5. NEWSLETTERS			
a. UAM Department of Forest Resources (#600)	40.07		
b. UAM Department of Forest Resources (#624)	38.18		
	78.25	78.25	
6. DUES			
a. National Association of Academies of Science (#601)		52.50	
TOTAL EXPENSES			\$12,202.67

4. Harp recognized Robert Wiley, Treasurer, for a financial report. Wiley referred to available copies of the report, briefly summarized its categories of income and expenses, and invited questions or comments. Wiley moved (2nd: Henry Robison) the approval of the financial report.

5. Harp recognized Stan Trauth, *Proceedings* Editor, for a report. The quality and price have increased, and Trauth hopes the membership will approve. Trauth moved (2nd: Robert Watson) the appropriation of \$500 plus \$200 for editorial assistance be made to support his office. Trauth also requested paper section chairs collect and transfer to him any manuscripts being submitted for publication.

6. Harp announced, in connection with the higher quality and higher price of the *Proceedings*, the Executive Committee will consider raising membership dues.

7. Harp recognized Richard Kluender, *Newsletter* Editor, for a report. He referred to available copies of his report. Kluender also summarized the subsidization of *Newsletter* production by his department and that this support may be lost when a new editor is elected. He moved (2nd: Art Johnson) the Academy appropriate \$1500 to support the *Newsletter's* production during next year.

8. Harp recognized Robert Watson, Chair of Nominations Committee, for a report. Other committee members were Walt Godwin and Dennis McMasters. Richard Kluender and Tom Palko were nominated to the office of Vice President, David Saugey for *Newsletter* Editor, and John Rickett for Secretary. Harp opened the floor to additional nominations. None came, and Harp declared nominations closed and the work of the Nominations Committee are accepted.

9. Harp called for a report from the Science Education Committee, but none came.

10. Harp recognized Mark Draganjac, Chair of Auditing Committee. Other committee members are Robert Engelken, Larry Mink, and Tina Teague.

11. Harp recognized Jimmy Bragg, Chair of Resolutions Committee. Other committee members are Dan Marsh and Mark Karnes.

12. Harp recognized the Constitution Committee; Jim Peck, Chair, Peggy Rae Dorris, and John Rickett. Rickett called attention to copies of the three motions the committee is placing before the membership (Appendix A), briefly explained the justifications, and asked for comments or questions. Rickett moved (2nd: Tom Palko) the approval of these three motions for constitutional revision, and Harp stated that the Executive Committee recommends a "do pass."

13. Harp recognized Tom Palko, Director of Junior Science and Humanities Symposium, for a report (see Appendix B). JSHS is very active and just completed an excellent meeting. Recognition should be given to all winners for their achievements.

14. Harp reported, for Robert Skinner, that the Junior Academy is meeting this weekend, and that Skinner is requesting continued support of \$250 from the Academy. John Peck moved (2nd: Tom Palko) that the support be approved.

15. Harp recognized Robert Wiley to report, on behalf of Mike Rapp, on the Arkansas Science Fair Association. It is also being held this weekend. Rapp requests continued support of \$400 from the Academy. Moved by Art Johnson, (2nd: John Peck).
16. Harp recognized John Peck, Director, Arkansas Science Talent Search, for a report. The 43rd Annual Arkansas Science Talent Search was held in conjunction with the 53rd Westinghouse Science Talent Search. Winners were:
First Place: Lisa Anne Turner
 Route 5, Box 348
 Sheridan, AR 72150
 "The formation of 4-vinyl guaiacol as a result of yeast contamination in sealed frozen orange juice"
 Sheridan High School; sponsored by Mr. Jim Gunnell
Second Place: Eric Evan Chen
 1411 Stonehenge Pl.
 Little Rock, AR 72212
 "Separation of polycyclic aromatic hydrocarbons by charge-transfer chromatography"
 Central High School; sponsored by Ms. Jacqueline Dyer
Third Place: Jennifer G. Baquial
 1205 Glenda Drive
 Little Rock, AR 72202
 "Modulation of nitric oxide synthase may account for the anticonvulsant and analgesic activities of Cu(II)2(3,5-diisopropylsalicylate)4"
 Central High School; sponsored by Mr. Dennis Brant Peck also requested continued support of \$200 from the Academy (2nd: Henry Robison).
17. John Peck also reported that an *ad hoc* committee, which he chairs, is seeking to consider appropriate ways the annual meetings might be diversified and enhanced. He asked for ideas via a questionnaire to be returned to him.
18. Presidential announcements:
 a. Doug James (UAF) will chair the Biota Survey Committee, with James Peck and Henry Robison cooperating and, respectively, representing the botanical and zoological interests. James is in the process of computerizing Leo Paulissen's records, and the University of Arkansas Press is interested in publishing the material. The committee will meet at 1700 hrs. today.
 b. The Development Committee has been chosen and charged to generate ideas for Academy advancement. Ed Griffin, Chair, Ed Bacon, and Dick Kluender comprise the committee and will welcome any ideas.
19. Harp called for any old business. None came. \$ 700 for the *Proceedings* Editor's office
20. Harp announced future meetings:
 a. University of Arkansas at Pine Bluff has officially invited the Academy to meet on their campus in 1995. Motion to accept by Tom Palko (2nd: Henry Robison).
 b. WestArk Junior College is interested in hosting the meeting in 1996, and the Oklahoma Academy of Science is interested in meeting jointly with the Arkansas Academy at that time.
21. Harp: final announcements:
 a. Sigma Xi breakfast Saturday at the Holiday Inn.
 b. Reminded section chairs to collect manuscripts being submitted for publication.
22. Motion to adjourn by Tom Palko (2nd: Robert Watson). Meeting adjourned at 1225 hrs.

 SECOND BUSINESS MEETING

Members present: 56

President George Harp called the meeting to order at 1200 hrs.

- Harp recognized Secretary Rickett to revisit the minutes of the 1993 business meetings. Having no comments or corrections, the minutes were approved by voice vote.
- Harp recognized Doug James for a report on the activities of the Biota Committee. The committee will continue assembling lists, will work toward computerizing existing lists, and approach the University of Arkansas Press for publication.
- Harp recognized Treasurer Wiley to revisit the financial report. Wiley asked for comments; none came. The Auditing Committee reported the following:

The Auditing Committee, after careful examination, found the financial records of the Academy as prepared by Treasurer Bob Wiley to be accurate and in good order. The committee would suggest, if possible, that in future reports, all transactions involving certificates of deposit be listed on a separate summary sheet (submitted by M. Draganjac, Chair).

A motion to accept the committee's report passed, and voice vote accepted the Treasurer's report.

- Harp asked Rickett to represent the requests for continued funding, as follows:

1500 for the *Newsletter* Editor's office
 250 for the Junior Academy
 400 for the Science Fair Association
 200 for the Science Talent Search

Rickett asked for comments and moved (2nd: Walt Godwin) the approval of these requests as a block. Passed.

5. Harp asked all new members to stand and be recognized, then all life members to do likewise.
6. Harp asked Robert Watson to review the slate of nominations (Dick Kluender and Tom Palko for Vice-President, David Saugey for *Newsletter* Editor, and John Rickett for Secretary). Harp then asked for nominations from the floor. None came, and Bob Wiley moved (2nd: Ed Bacon) that nominations cease. Passed. Robert Watson moved that the two unopposed candidates be accepted by acclamation. Passed.

Written ballots elected Richard Kluender to the office of Vice-President.

7. Harp recognized Jimmy Bragg for a report from the Resolutions Committee (Appendix C). Resolutions were accepted and approved.
8. Harp reminded the audience of the motion from the First Business Meeting to accept the invitation from UAPB for the 1995 meeting.
9. Harp then recognized David Meeks, who formally invited the Academy to meet on the WestArk Campus in 1996 and to formally approach the Oklahoma Academy of Science for a joint meeting. Motion to accept their invitation was made by Palko and passed.
10. Harp recognized Phoebe Harp for announcement of paper award winners (see Appendix D).
11. Harp recognized Lynita Cooksey for a report on the meeting involvement. There were 258 registrations, 140 banquet participants, and 133 papers presented, of which 62 were student papers.
12. Harp reminded attendees to pick up unclaimed *Proceedings* and return them to their respective campuses, as appropriate.
13. New business:
 - a. Harp reannounced John Peck's survey and invited members to respond with suggestions and comments.
 - b. Harp announced that a graduate assistantship to

study freshwater mussels is available.

- c. Harp recognized Joe Stoeckel (ATU) who gave a brief report on the activities of the new Arkansas River Conservation Committee and invited broader participation.
 - d. Harp recognized Rickett, who reviewed the three motions to amend the Constitution proposed by the Constitution Committee. Motions passed as a group without discussion.
14. Harp extended appreciation to all who helped his office during the past year and the local arrangements committee for the current meeting. He then called Dick Kluender to the front and presented a plaque to him of appreciation as outgoing *Newsletter* Editor.
 15. Harp then called Jim Peck to the front and passed the gavel to him as the new president. Peck then presented Harp with a plaque of appreciation for his year as president.
 16. President Peck cited the Academy's growth as a healthy trend and invited everyone to the 1995 meeting. Peck also introduced the new President-Elect, Peggy Rae Dorris.
 17. Peck entertained a motion by Walt Godwin to adjourn (several seconds). Meeting adjourned at 1252 hrs.

--- Respectfully submitted,
 John Rickett, Secretary

APPENDIX A

TO: ARKANSAS ACADEMY OF SCIENCE EXECUTIVE COMMITTEE AND MEMBERSHIP

DATE: 8 APRIL 1994

FROM: CONSTITUTION COMMITTEE (JAMES PECK, PEGGY RAE DORRIS, AND JOHN RICKETT)

MOTIONS FOR CONSTITUTIONAL REVISION

MOTION 1: The insertion of the following item into the By-laws as item 9:

9. In the event an officer, except President, Past-President, President-Elect, and Vice-President, is unable to complete a term, the Executive Committee shall appoint a successor to complete that term, or open a new 5-year term with an election at the next general meeting.

COMMENTARY ON MOTION 1: The recent resigning

Arkansas Academy of Science

of Harvey Barton from the office of *Proceedings* Editor before expiration of his elected term caused considerable debate within the Executive Committee regarding how to get a new Editor. This motion would give the Executive Committee some guidance and reduce the time spent debating the mechanism.

MOTION 2: The following revision of Appendix A (CONSTITUTIONAL AND STANDING COMMITTEES OF THE ACADEMY):

APPENDIX B

(NOTE: proposed additions are bold-faced; deletions are italicized)

AAS CONSTITUTIONAL COMMITTEES

1. EXECUTIVE COMMITTEE: The Executive Committee shall consist of the President, Past President, President-Elect, Vice President, Historian, *Proceedings* Editor, *Newsletter* Editor, Secretary, and Treasurer. The Executive Committee shall make recommendations concerning the policies and activities of the Academy in accordance with the Constitution and By-laws of the Academy. The committee shall meet prior to the first annual business meeting to discuss any motions to be presented at the annual business meeting or any other matters that pertain to the Academy.

AAS STANDING COMMITTEES ESTABLISHED BY THE BY-LAWS

1. AUDITING COMMITTEE: The Auditing Committee shall consist of a Chairperson and three additional members. The President shall appoint the Committee prior to or at the first annual business meeting, and it shall function only for that annual meeting. The Committee shall examine the financial records of the Academy, provided by the Treasurer, and report its findings to the Academy at the second business meeting.
2. AWARDS COMMITTEE: The Awards Committee shall be named by the Local Arrangements Committee for the upcoming annual meeting. The Awards Committee shall consist of a Chairperson and two as many additional members as the Chair and/or Local Arrangements Committee deem necessary. The Awards Committee shall review evaluate undergraduate and graduate papers presented paper presentations during the annual meeting and make recommendations for the various undergraduate awards established by the Executive Committee.

3. BIOTA COMMITTEE: The Biota Committee shall consist of a Chairperson and five additional members, and shall be appointed by the President for undefined terms of service. A term of service may be terminated by either the President or the committee Chair or member. The Biota Committee shall collect, organize, and disseminate taxonomic information on the flora and fauna of Arkansas. Reports shall be made available to the members of the Academy and any other interested party when sufficient information exists.
4. CONSTITUTION COMMITTEE: The Constitution Committee shall be appointed by the President whenever a need for constitutional examination exists and consist of the President-elect, Vice President, and one additional member. The President-elect shall serve as the Chairperson. The Committee shall make recommendations on changes in the Constitution and By-laws whenever such changes shall be are deemed necessary.
5. DEVELOPMENT COMMITTEE: The Development Committee shall consist of a Chairperson and two additional members and be appointed by the President to undefined terms. Either the President or the committee Chair or member may terminate an appointment. The Development Committee shall promote the growth and development of the Academy by contacting private industries to secure endowment funding to support activities of the Academy.
6. LOCAL ARRANGEMENTS COMMITTEE: The Local Arrangements Committee shall consist of a Chair, appointed by the President, and a minimum of two additional members, selected by the Chair. The Local Arrangements Committee shall make the arrangements necessary to host the annual meeting in accordance with the established guidelines for hosting a meeting adopted by the Executive Committee.
7. NOMINATIONS COMMITTEE: The Nominations Committee shall consist of a Chairperson and two additional members. The Nominations Committee shall be appointed by the President prior to the annual meeting and shall recommend candidates for office to the members of the Academy for election. Two candidates shall be proposed for Vice President, and one candidate shall be proposed for each of the other offices (Treasurer, Secretary, Historian, and Editors) as their terms expire.
8. PUBLICATIONS COMMITTEE: The Publications Committee shall consist of the Editor of the *Proceedings*, who serves as Chair, and two additional

members. The two additional members shall be appointed by the President for undefined terms, and either the President or the committee member may terminate an appointment. The Chair may select as many associate editors as deemed necessary. The *Publications Committee* Editor and associate editors shall review papers submitted for publication in the *Proceedings* and any other publications deemed necessary by the Executive Committee. Papers submitted for publication in the *Proceedings* shall may be forwarded to selected reviewers, and the Committee has jurisdiction over all matters concerning acceptance, rejection, or modification revision of scientific papers.

9. **PUBLICITY COMMITTEE:** The Publicity Committee shall consist of a Chairperson and two additional members. The Committee shall be appointed by the President for undefined terms, and either the President or the committee Chair or member may terminate an appointment. The Publicity Committee shall promote the public image of the Academy with news releases on activities and accomplishments of the Academy. All news releases shall be reviewed and approved by the Executive Committee prior to release to the news media.
10. **RESOLUTIONS COMMITTEE:** The Resolutions Committee shall consist of a Chairperson and two additional members. The Committee shall be appointed by the President prior to or at the first annual business meeting and serve only for that meeting. The Resolutions Committee shall present an appropriate resolution expressing the appreciation of the Academy to all individuals and organizations involved in activities sponsored by the Academy during the year.
11. **SCIENCE EDUCATION COMMITTEE:** The Science Education Committee shall consist of a Chairperson and additional members as deemed necessary by the Chairperson of the Committee. The President shall appoint the Chair and, in consultation with the Chair, additional members for undetermined terms. Either the President or the committee Chair or member may terminate an appointment. The Science Education Committee shall provide information to the Academy on current programs and activities in science education in the state, promote programs, including the Junior Academy, Science/Engineering Fairs, and Science Talent Search(es), and cooperate with state agencies and other educational organizations in the study and development of innovative ideas or activities to improve science education at all levels in the state.

COMMENTARY ON MOTION 2: This proposed revision simply clarifies and adds information regarding the make-up, who appoints, and terms of members of the various standing committees.

MOTION 3: The addition of the following item as Appendix B to the Academy Constitution:

DUTIES OF ELECTED OFFICERS

- a. *President --*
 - i. Calls to order and presides over all Executive and General Business Meetings.
 - ii. Handles official Academy correspondence as pertains to the Office of President, and/or delegates correspondence pertaining to other offices to those officers, as appropriate
 - iii. Asks any other officers and directors of subunits, as appropriate, for advice and assistance
- b. *President-Elect--*
 - i. Serves in the capacity of President should the President be unable to perform his/her duties
 - ii. Assists and advises the President when called on to do so
- c. *Vice President--*

Assists and advises the President and/or President-Elect when called on to do so
- d. *Past President--*

By virtue of his/her service and experience, the Past President assists and advises the President when called on to do so
- e. *Treasurer--*
 - i. Keeps all financial records of the Academy
 - ii. Receives payments of dues, *Proceedings* subscriptions, and any other source of income
 - iii. Manages investments of the Academy with the approval of the Executive Committee
 - iv. Disburses funds for payment of Academy operating expenses and gifts awarded
- f. *Secretary--*
 - i. Keeps all clerical records of the Academy: memberships by approved categories, *Proceedings* subscription, exchange, and abstracting service lists, and other records as deemed necessary and appropriate by the Executive Committee
 - ii. Sends out copies of the *Proceedings* to members (as needed) and as requested by subscription, exchange, and abstracting service lists
 - iii. Corresponds with members and libraries as appropriate regarding payment of dues and payment of invoices for *Proceedings*

- iv. Furnishes mailing labels to other Executive Committee members as requested and appropriate
- v. Furnishes membership information, as appropriate, to anyone requesting
- vi. Corresponds with AAAS (American Association of Academies of Science) to receive or provide information as needed and appropriate

g. *Proceedings Editor*--

- i. Receives manuscripts submitted for publication and cooperates with Associate Editors in the review, revision, and acceptance process
- ii. Prepares the next issue of the *Proceedings* by assembling the final copies of manuscripts accepted for publication
- iii. Works with the Publisher in the technical preparation of the *Proceedings*
- iv. Arranges for the distribution of copies of the *Proceedings* at the next annual meeting

h. *Newsletter Editor*--

- i. Receives and compiles news items regarding Academy operations, Executive Committee decisions, and general Academy activities and involvements
- ii. Prepares two issues of the *Newsletter* per year, the contents of which are subject to approval and revision by the Executive Committee--
 - a. the "Fall" issue shall contain general news about Academy activities and general information about the next annual meeting
 - b. the "Spring" issue shall contain more specific information about the next annual meeting, an abstract form, meeting reservation/registration form(s), and specific news about achievements of Academy members
- iii. Distributes copies to all Academy members and prospective members, as directed by the Executive Committee

i. *Historian*--

- i. Keeps historical records of Academy meetings and other activities
- ii. Reports on past activities at the annual meeting, as the presiding officer directs, and as the Executive Committee requests

COMMENTARY ON MOTION 3: In the past, we have been comfortable with the officers' titles sufficiently conveying their duties. Anticipating the possibility of problems or misunderstandings, we probably should document the major duties or expected functions of each elected officer.

IMPLEMENTATION--

These items will be presented for discussion at the

First Business Meeting on 8 April 1994 and (possibly) further discussed and voted on during the Second Business Meeting on 9 April 1994. The approval and implementation of Motion 1 will cause items in the By-laws currently numbered 9 through 14 to be renumbered 10 through 15.

APPENDIX B

ARKANSAS JUNIOR SCIENCE AND
HUMANITIES SYMPOSIUM
TOM PALKO, DIRECTOR

The 28th Arkansas Junior Science and Humanities Symposium was held on the Arkansas Tech University campus on March 18-20, 1994. There were 119 students and 25 teachers in attendance, representing all regions of Arkansas. Activities during the symposium included talks by scientists about their research, seminars, tours, a field trip for the student delegates, and a workshop for teachers. The delegates were entertained with two one-act plays performed by the ATU Theater Department. They also enjoyed a keyboard concert with selections performed on the harpsichord, piano, and pipe organ.

The main event of the meeting occurred Saturday morning when 15 students were given the opportunity to present their research papers. Four of the presenters won a full freshman scholarship at ATU. Six won a trip to the National JSHS which will be held the last week in April at NCSU and Triangle Research Center, Raleigh, NC. Anna Terry was selected as the outstanding presenter, and she will compete at the National JSHS meeting for a free two-week tour of London, England. The title of her paper was, "The Fractal Geometry of Landforms: A Report on a Mathematical Investigation." Anna is a 15-year-old sophomore at Southside High School, Fort Smith, Arkansas.

APPENDIX C

RESOLUTIONS

BE IT RESOLVED, that we, the members of the Arkansas Academy of Science, offer our sincere thanks to Arkansas State University at Jonesboro for hosting the 1994 meeting of the Arkansas Academy of Science. In particular, we thank the local arrangements committee for an outstanding job of organizing the meeting: Lynita Cooksey, Chairperson; Phoebe Harp; Julia Bollinger; Jim Bednarz; Marty Huss; Susan Cady; J. D. Wilhide; and Larry Mink. Appreciation is expressed for the use of ASU's excellent facilities and the hospitality shown us by all ASU personnel. The banquet was excellent, as was Dr. Ken Paige and his dynamic presentation, "Plant-Animal Interactions and the Dynamic Nature of Plants."

The Academy recognizes the important role played

by the various section chairpersons and expresses appreciation to: Jerry Darsey, Susan Cady, and Edward Bennett (Chemistry); Leon Richards and Dennis McMasters (Botany); Lawrence Hinck and William Willingham (Biomedical); Betty Cochran (Herpetology); Robert Watson (Invertebrate Zoology); William Braithewaite and Robert Engleken (Physics, Computers, Energy, Geology); Roland McDaniel and Alan Price (Aquatic Biology); Andrew Sustich (Geology, Astronomy, Physics); Ronald Johnson and David Gilmore (Microbiology, Cellular Biology); Alan D. Christian (Science Education, Toxicology, Water Quality); Michael Harvey and Renn Tumilson (Ecology, Conservation); Todd Wiebers and David Saugey (Birds, Mammals).

A special thanks is owed the individuals who devoted considerable time and energy to judging student papers: Anthony Holt and Earl Hanebrink (Undergraduate Life Sciences); Roger Buchanan and Julia Bollinger (Graduate Life Sciences); David Chittenden and Ed Gran (Undergraduate Physical Sciences); Norman Trautwein and Andy Sustich (Graduate Physical Sciences).

We express gratitude to the various directors of the science and youth activities which are supported by the Academy: Tom Lynch (Chairperson, Science Education Committee); Mike Rapp (President, Arkansas State Science Fair Association); Tom Palko (Director, Junior Science and Humanities Symposium); John Peck (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: Kathryn Shinn and Marian Douglas (Central Region); Veryl Board and Kathy Campbell (Northcentral Region); Larry Minck and Ron Johnson (Northeast Region); John Hehr (Northwest Region); Wayne Everett (Southcentral Region); Guy Nelson and Deborah Phillips (Southeast Region); Tim Daniels (Southwest Region); Mike Rapp, Robert and Raynell Skinner (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: George Harp (President), James Peck (President-Elect), Peggy Dorris (Vice President), John Rickett (Secretary), Robert Wiley (Treasurer), Art Johnson (Past President), Stan Trauth (*Proceedings* Editor), Richard Kluender (*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 at this meeting. Student participants are especially recognized, since their continued efforts will be direct-

ly responsible for the future success of the Academy, and the continuation of science education and research in Arkansas.

Resolutions Committee
J. D. Bragg, Chair
Daniel L. Marsh
Mark Karnes

APPENDIX D

PAPER PRESENTATION AWARDS

Life Sciences - undergraduate:

- First-- Reproductive structures of adult cottonwood borer beetles *Plectrodera scalator*). **Jason A. Kilgore**, Hendrix College, Conway, AR, and Steven K. Goldsmith, Tulsa University, Tulsa OK.
- Second-- Species packing in a North Carolina creek. **James J. English** and **Alvan A. Karlin**, University of Arkansas at Little Rock, and **Laurie D. Lacer**, Biotechnical Services, Inc., North Little Rock, AR.
- Third-- Nectar production in *Lobelia puberula*: Undergraduate research on native plants and their pollinators. **Michael J. Boyd**, Lachi R. Kishen, and **William H. Baltosser**, University of Arkansas at Little Rock, AR.

Life Sciences -- graduate:

- First-- Water quality of an Ozark stream receiving urban point and non-point pollution: Physicochemical parameters. **Phillip B. Drope** and **James J. Daly**, University of Arkansas for Medical Sciences, Little Rock, AR.
- Second-- Selected community characteristics of freshwater mussels (Unionacea) in the Cache River, Arkansas. **Alan D. Christian**, **John L. Harris**, **William R. Posey**, and **George L. Harp**, Arkansas State University, State University, AR.
- Third-- A comparison of macrophytes of two small northwest Arkansas reservoirs. **John J. Sullivan** and **A. V. Brown**, University of Arkansas at Fayetteville, AR.

Physical Sciences -- undergraduate:

- First-- Tetraethylene glycol-based electrolytes for high temperature electrochemical deposition of compound semiconductors. **Chris Poole**, **Robert D. Engelken**, **Brandon Kemp**, and **Jason Brannen**, Arkansas State University, State University, AR.
- Second-- Storm dominated channel sequences on a shallow marine shelf: Middle Morrowan of northwestern Arkansas. **Kimberly R. Jones**,

University of Arkansas at Fayetteville, AR.
 Third-- Studies of Copper(II) 2-hydroxy-5-N, N-diethylsulfonamide benzoate. **Elsie Williams, Shaheen Khan, Israt J. Chowdhury, and William M. Willingham, University of Arkansas at Pine Bluff, AR.**

Physical Sciences -- graduate:

First-- Evaluation of photodiode arrays in rocket plume monitoring and diagnostics. **D. H. Snider, M. K. Hudson, R. B. Shanks, and R. Cole, University of Arkansas at Little Rock, AR.**
 Second-- Multisite microprobes for electrochemical recordings in biological dynamics. **G. Screenivas, S. S. Ang, R. M. Ranade, A. S. Salian, and W. D. Brown, University of Arkansas at Fayetteville, AR.**
 Third-- An integrated data acquisition and data analysis system for high energy physics. **Charles A. Byrd, Christine A. Byrd, and W. J. Braithwaite, University of Arkansas at Little Rock, AR.**

APPENDIX E

STATE SCIENCE FAIR AND JUNIOR
 ACADEMY OF SCIENCE
 1994 ANNUAL REPORT

Below are shown the numbers of students who participated in the Arkansas science fairs that are affiliated with Science Service and the numbers of students who participated in the State Junior Academy of Science meeting for 1994 (see below for the locations of the fairs). The senior division is for students in grades 9-12, and the junior division is for students in grades 8 and below. Since statewide competition is not allowed for students before high school, there are no "junior divisions" for the state fair or junior academy.

	Cent	NCen	N.E.	N.W.	SCen	S.E.	S.W.	State	JrAcad
Senior	134	65	120	100	140	156	92	256*	63*
Junior	120	68	123	105	131	93	526	n/a	n/a

*54 schools

For 1994, the locations and dates for the events and the individuals serving as directors were:

		Science Fair	Junior Academy
Central Region	UAMS	Kathryn Shinn	Marian Douglas
	Saturday, March 5	Lonoke H.S.	U.A.L.R.
North Central	Batesville	Veryl Board	Kathy Campbell
	Friday, March 25	Arkansas College	Newark H.S.
North East	Jonesboro	Larry Mink	Ron Johnson
	Friday, Saturday, March 4, 5	Ark. State U.	Ark. State U.
North West	Fayetteville	John Hehr	
	Friday, March 18	Univ. of Ark.	
South Central	Arkadelphia	Wayne Everett	Wayne Everett
	Friday, March 8 (sic)	Ouach. Bap. U.	Ouach. Bap. U.
South East	Monticello	Guy Nelson	Deborah Phillips
	Friday, March 11	U of A-Mont.	DeWitt H.S.
South West	Camden	Tim Daniels	
	Friday, March 11	SAU-Tech Station	
State	Conway	Mike Rapp	M/M Bob Skinner
	Friday, Saturday, April 8, 9	Univ. Cen. Ark.	U.A.M.S.

MEMBERS 1994

LAST NAME	FIRST MI	INSTITUTION
Adams	Al	Univ. of Arkansas at Little Rock
Addison	Stephen R.	University of Central Arkansas
Al-Khayri	Jameel M.	University of Arkansas/Fayetteville
Bacon	Robert	University of Arkansas at Fayetteville
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	
Battles	Les	Arkansas State University
Beadles	John Kenneth	Arkansas State University -- retired
Bennett	J. Edward	Arkansas State University
Benson	Ann Marie	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
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
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
Cochran	Betty S.	U.S. Forest Service
Cole	David	Harding University
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
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.
Daster	Robert H.	Arkansas Highway & Transp. Dept.
David	Stanley N.	Arkansas State University
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
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
Gildseth	Wayne	Southern Arkansas University
Gilmore	David F.	Arkansas State 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

Secretary's Report

LAST NAME	FIRST MI	INSTITUTION	LAST NAME	FIRST MI	INSTITUTION
Hanebrink	Earl L.	Arkansas State University -- retired	Moore	Phillip	Arkansas Highway & Transportation Dept.
Harris	John L.	Arkansas Highway & Transportation Dept.	Moore	Jewel	University of Central Arkansas
Harvey	Michael J.	Tennessee Tech University	Morgans	Leland F.	University of Arkansas at Little Rock
Hawk	Roger M.	University of Arkansas at Little Rock	Moss	Linda	
Hemmati	Mustfa	Arkansas Tech University	Murphy	Michael	Arkansas State University
Henson	Stanley	Arkansas Tech University	Mwasi	Lawrence M.	Univ. of Arkansas at Pine Bluff
Hilburn	Larry R.	Black River Technical College	Nagappa	H. Y.	Univ. of Arkansas at Pine Bluff
Hinck	Larry	Arkansas State University	Nave	Paul	Arkansas State University
Hirschi	Dean	University of Central Arkansas	Neal	Joseph C.	U. S. Forest Service
Hite	Maxine R.		Nehus	Nathaniel	Ark. Dept. Pollution Control & Ecology
Hodges	Howard	University of Arkansas at Little Rock	Nelson	Thomas	Arkansas Tech University
Holt	Anthony	Arkansas State University	Nordeen	Russell	University of Arkansas at Monticello
Hood	William G.	University of Arkansas at Little Rock	O'Brien	Timothy J.	University of Arkansas/Medical Sciences
Huang	Feng Hou	University of Arkansas at Fayetteville	Oosterhuis	Derrick M.	University of Arkansas at Fayetteville
Hudson	M. Keith	University of Arkansas at Little Rock	Orr	Clifton	University of Arkansas/Pine Bluff
Huey	Jim	University of Arkansas at Monticello	Owen	Wilbur	University of Central Arkansas
Huffman	Jannie	Arkansas State University	Owens	Don R.	University of Arkansas/Little Rock
Huggins	Julie A.	East Arkansas Community College	Palmer	Bryan D.	Henderson State University
Hughes	Charles A.	Arkansas State University	Parsons	Barbara	Univ. of Arkansas at Little Rock
Hurlburt	Barry K.	Univ. of Arkansas for Medical Sciences	Paulissen	Leo J.	University of Arkansas at Fayetteville
Huss	Martin	Arkansas State University	Paulissen	Mark A.	McNeese State University
Hyatt	Philip E.	Savannah River Forest Station	Peck	John D.	University of Central Arkansas
Igietseme	Joseph U.	University of Arkansas/Medical Sciences	Pennington	Carlos H.	USAE Waterways Experiment Station
Ison	Celia		Peterson	Charlotte A.	Veterans Admin. Hospital
Jalaluddin	M. D.	University of Arkansas at Pine Bluff	Piper	Ed	University of Arkansas
Jamieson	David	Ark. St. Univ.-Beebe/Newport	Plummer	Michael V.	Harding University
Jansma	Harriet	University of Arkansas at Fayetteville	Pray	Harold	University of Central Arkansas
Jeffries	Douglas L.	University of the Ozarks	Price	Mazo	University of Arkansas at Pine Bluff
Jeness	Jeff	Arkansas State University	Prince	Denver L.	University of Central Arkansas
Jimerson	David	Arkansas State University	Quartucci	Gregory M.	Burns & McDonnell
Johnson	Ronald	Arkansas State University	Rasmussen	James A.	Southern Arkansas University
Johnson	Michael I.	Nettleton High School	Reynolds	Ruby S.	University of the Ozarks, retired
Johnson	Hugh	Southern Arkansas University	Richards	Edward L.	Arkansas State University
Johnson	George P.	Arkansas Tech University	Rodgers	Michael R.	Ark. Dept. Pollution Control & Ecology
Jones	Suzanne M.	Arkansas State University	Roe	Amy L.	Nat. Center for Toxicological Research
Justice	Jay	Ark. Dept. Pollution Control & Ecology	Roop	Marty	University of Arkansas/Medical Sciences
Kane	Cynthia J.M.	Univ. of Arkansas for Medical Sciences	Rowe	Marsha	Stamps High School
Kaplan	Arnold		Runge	Steven W.	University of Central Arkansas
Karlin	Alvan A.	University of Arkansas at Little Rock	Sanders	Terry A.	Taylor High School
Kehler	Phillip L.	University of Arkansas at Little Rock	Sealander	John A.	University of Arkansas at Fayetteville
Kennedy	Bud	Arkansas State University	Setliff	Frank L.	University of Arkansas at Little Rock
Khan	Shaheen	University of Arkansas at Pine Bluff	Shade	Elwood B.	University of Arkansas at Monticello
Kleve	Maurice G.	University of Arkansas at Little Rock	Shaikh	Ali U.	University of Arkansas at Little Rock
Kluender	Richard	University of Arkansas at Monticello	Sharp	J. Craig	Univ. of Central Arkansas
Knight	Frank M.	University of the Ozarks	Shepherd	William H.	Arkansas Natural Heritage Comm.
Knighten	Pat	Arkansas Game & Fish Commission	Siegel	Samuel	University of Arkansas at Fayetteville
Koeppel	Roger E., III	University of Arkansas at Fayetteville	Sifford	Dewey H.	Arkansas State University
Komoroski	Richard A.	University of Arkansas/Medical Sciences	Simpson	Kim	Arkansas Children's Hospital
Kopper	Randall A.	Hendrix College	Skinner	Robert	
Kral	Timothy	University of Arkansas at Fayetteville	Smith	Edwin B.	University of Arkansas at Fayetteville
Krause	Paul	University of Central Arkansas	Smith	Kimberly G.	University of Arkansas at Fayetteville
Lane	Forrest E.	University of Arkansas at Fayetteville	Smith, Jr.	Roy J.	U. S. D. A./Univ. of Arkansas
Lanza	Janet	Univ. of Arkansas at Little Rock	Snow	L. Dale	Louisiana Tech University
Lavers	Norman	Arkansas State University	Snyder	David G.	University of Arkansas at Monticello
Lejeune	J. K.	Red River Technical College	Spiegel	Frederick W.	University of Arkansas at Fayetteville
Lee	Linda A.	Pocahontas Middle School	Standage	Richard W.	U. S. Forest Service
Lewis	Carolyn	Arkansas Tech University	Steward	T. W.	Union University
Lindquist	David	University of Arkansas at Little Rock	Stoeckel	Joseph N.	Arkansas Tech University
Linnstaedter	Jerry L.	Arkansas State University	Sundell	Eric	University of Arkansas at Monticello
Lockhart	J. Mitchell	University of Arkansas at Fayetteville	Sutherland	Mark	Hendrix College
Lockhart	Brian	University of Arkansas at Monticello	Sutton	Keith	Hendrix College
Lockley	Judy	Marked Tree Public Schools	Swindell	Robert T.	University of Arkansas at Little Rock
Lortz	David	Univ. of Arkansas at Monticello	Tappe	Phil	University of Arkansas at Monticello
Lynch	Thomas J.	University of Arkansas at Little Rock	Taylor	William S.	University of Central Arkansas
Mackey	James	Harding University	TeBeest	David O.	University of Arkansas at Fayetteville
Malasri	Siripong	Christian Brothers University	Thompson	Lyell	University of Arkansas at Fayetteville
Manion	Jerry	University of Central Arkansas	Thurmond	John T.	University of Arkansas at Little Rock
Matthews	H. Michael	Henderson State University	Timmerman	Dan	Arkansas State University
Mazumder	M. K.	University of Arkansas at Little Rock	Timmerman	Lorraine	Van-Cove High School
McAllister	Chris T.	Veterans Affairs Medical Center	Timmerman	Rudy	Rich Mountain Community College
McAllister	Russell B.	Ark. Dept. Pollution Control & Ecology	Trauth	Stanley E.	Arkansas State University
McCarty	Clark W.	Ouachita Baptist University (retired)	Trautwein	Norman	Arkansas State University
McDaniel	V. Rick	Arkansas State University	Tull	Dalena	University of Central Arkansas
McLemore	John A.	USDA, Forest Service	Tumilson	Renn	Henderson State University
McMasters	Dennis W.	Henderson State University	Vere	Victor K.	Arkansas Tech University
Meeks	David	Westark Community College	Walker	Richard B.	University of Arkansas at Pine Bluff
Mehta	Rahul	University of Central Arkansas	Walker	Stephen A.	Eastern Kentucky University
Mink	Lawrence A.	Arkansas State University	Weaver	K. Casey	University of Central Arkansas
Mitchell	Richard S.	Arkansas State University	Webb	Jerry	University of Arkansas at Monticello
Mittelstaedt	Roberta A.	National Center for Tox. Research	Weidemann	G. J.	University of Arkansas at Fayetteville
Mittelstaedt	James S.		Wennerstrom	David	University of Arkansas/Medical Sciences
Montague	Warren		Wennerstrom	Delores	Pulaski Academy
Moody	Bonnie	Henderson State University	Wiebers	Todd	Henderson State University

Arkansas Academy of Science

LAST NAME	FIRST MI	INSTITUTION	LAST NAME	FIRST MI	INSTITUTION
Wilhide	J. D.	Arkansas State University	Peck	James H.	University of Arkansas at Little Rock
Williams	Richard A.	University of Arkansas/Monticello	Rapp	Michael W.	University of Central Arkansas
Willis	Rebecca L.	Southern Arkansas University	Rickett	John D.	University of Arkansas at Little Rock
Wilson, Jr.	Edmond W.	Harding University	Robison	Henry W.	Southern Arkansas University
Wold	Donald C.	University of Arkansas at Little Rock	Saugely	David A.	U. S. Forest Service
Wolf	Duane C.	University of Arkansas at Fayetteville	Sewell	Stephen A.	University of Mississippi
Woolverton	Heather L.	University of Central Arkansas	Spears	Betty M.	Ouachita Mtns. Biological Station
Wright	Robert D.	University of Central Arkansas	Spears	Richard K.	Ouachita Mtns. Biological Station
Wyatt	Bill	Arkansas State University	Templeton	George E.	University of Arkansas at Fayetteville
Yang	Chia C.	Arkansas Tech University	Tucker	Gary	FTN Associates
Yang	Dominic T.	University of Arkansas at Little Rock	Wickliff	James L.	University of Arkansas at Fayetteville
York	J. Lyndal	University of Arkansas/Medical Sciences	Wiley	Robert W.	University of Arkansas at Monticello
Young	David A.	Fayetteville Public Schools			
Zachry	Doy L.	University of Arkansas/Fayetteville			
Zimmer	Steven W.	Arkansas Tech University			

SPONSORING MEMBERS

Bean	Judith A.	Harmony Grove High School
Bradley	Richard	Univ. of Arkansas at Little Rock
Braithwaite	Wilfred J.	University of Arkansas at Little Rock
Davies	David L.	University of Arkansas/Medical Sciences
England-Whaley	Lawana	Arkansas State University
Hardin	Joyce M.	Hendrix College
Howick	Lester C.	University of Arkansas at Fayetteville
Sharrah	Paul C.	University of Arkansas at Fayetteville

SUSTAINING MEMBERS

Barton	Harvey E.	Arkansas State University
Board	Veryl	Arkansas College
Bollinger	Julia Reed	Arkansas State University
Cleveland	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
Glover	Mattie	University of Arkansas at Pine Bluff
Johnston	Perry Max	University of Arkansas at Fayetteville
Karnes	Mark	The Ross Foundation
Marsh	Daniel L.	Henderson State University
McConnell	Rose	University of Arkansas at Monticello
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
Sustich	Andrew T.	Arkansas State University
Tendeku	Felix K.	University of Arkansas at Pine Bluff
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
Cotton	Calvin	Geographics Silk Screening Co.
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
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
McDaniel	Roland E.	FTN Associates, Ltd.
Moore	Clementine	
Northrop	Gaylord M.	University of Arkansas at Little Rock
Palko	Tom	Arkansas Tech University

STUDENT MEMBERS

Adair	Robert E.	University of Arkansas/Fayetteville
Allen	Michelle	University of Arkansas at Little Rock
Ashburn	Charles	University of Arkansas at Little Rock
Baber	Connie	Henderson State University
Bean	Ashley	Hendrix College
Bearden	Stacy Lee	Arkansas State University
Bray, Jr.	James R.	Henderson State University
Caster	Paul	Univ. of Arkansas at Little Rock
Clark	Mark	Henderson State University
Clark	Murray R.	University of Arkansas at Little Rock
Davis	Angela Wynette	University of Arkansas at Pine Bluff
Dukes	Rebecca	
Ekworomadu	Charles	University of Arkansas for Medical Sciences
Elder	Ginger	Arkansas State University
Eller	David	Henderson State University
Everett	William R.	University of Arkansas at Fayetteville
Fletcher, III	Thomas M.	University of Arkansas/Medical Sciences
Freeman	Leah	Arkansas State University
Garner	Heath	Arkansas State University
George	Steven G.	Northeast Louisiana University
Gillum	Russell	University of Arkansas at Little Rock
Haider	Neena	Arkansas State University
Hansen	Debra	
Harris	Kristi	Arkansas State University
Heckathorn, Jr.	Walter	University of Arkansas
House	Kelly L.	Garland Co. Comm. Coll./H.S.U.
Huskins	Mark W.	Arkansas Tech University
Isenberg	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
King	Chris	University of Arkansas
Martin	Randy	University of Arkansas at Little Rock
Mayes	Eric	Arkansas State University
Metcalfe	Chris	Northeast Louisiana University
Mooney	Donna	University of Arkansas/Little Rock
Murray	Susan	Arkansas Natural Heritage Comm.
Persons	Cecil C.	University of Arkansas at Little Rock
Posey	William R., II	Arkansas State University
Pringle	John	University of the Ozarks
Russell	William A., Jr.	University of Arkansas at Little Rock
Ryan	John M.	University of Arkansas/Fayetteville
Sims	Jay	University of Arkansas/Little Rock
Smith	Jerome V.	University of Arkansas at Little Rock
Smith	Anna	Henderson State University
Snider	D. H.	University of Arkansas at Little Rock
Stichel	Sara	Arkansas State University
Townsend	Teddy L.	University of Central Arkansas
Whitehead	Greg A.	Henderson State University
Wilkins	Phillip K.	Arkansas State University
Williams	Michelle	University of Arkansas/Little Rock
Williams	Gregg R.	Arkansas State University
Withgott	James H.	University of Arkansas at Fayetteville
Yang	Zibin	University of Arkansas at Little Rock