

2001

## 85th Annual Meeting, 2001. Secretary's Report and Financial Statement

Academy Editors

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# JOURNAL ARKANSAS ACADEMY OF SCIENCE

ANNUAL MEETING 13-14 APRIL 2001  
UNIVERSITY OF CENTRAL ARKANSAS

**Mark Draganjac**  
President

**John Rickett**  
President-Elect

**Michael Soulsby**  
Secretary

**Joyce Hardin**  
Treasurer

**Ed Griffin**  
NAAS Delegate

**Henry Robison**  
Historian

## *Secretary's Report*

### MINUTES OF THE 85TH MEETING

*FIRST BUSINESS MEETING*  
*UCA LEWIS SCIENCE CENTER ROOM 102*  
*APRIL 13, 2001 - 10:30 AM*

1. Minutes: Mark Draganjac opened the meeting by tabling the minutes until the 2nd Business Meeting to allow the Executive Committee time to review them.
2. Welcome: Mark turned the meeting over to Paul Hamilton, Local Arrangements Committee Chairman. Paul turned the floor over to Dean Ronald Toll. On behalf of the UCA campus, Dean Toll welcomed everyone to the 85th meeting of the Arkansas Academy of Science. Paul then acknowledged that Dean Toll's office is sponsoring the keynote speaker. Paul then described changes in the agenda for the meetings. A total of 120 tickets was sold for the banquet.
3. Secretary's Report: Mike addressed the problem associated with the number of *Journal* #53 volumes ordered. He explained that approximately 25 foreign institutions did not receive a copy, and therefore were not billed by the Fayetteville Campus. This is reflected in the treasurer's report, and the problem should not recur again this year. A motion to accept was made by Dr. Rickett, was seconded by Dr. Hemmati, and was passed.
4. Treasurer's Report: Joyce discussed about \$1,000 yet to be received for membership dues and asked for prompt payment. She then discussed her written report that is attached to these minutes. She thanked David Saugey for about \$1,000.00 from the sale of his book describing mammals in Arkansas. Income from the Harp Endowment was discussed, for there was concern about whether an adjustment for inflation was included, so that the value would not decrease. Joyce explained that the annual interest will exceed the award, and the basic amount in the endowment should increase annually. Dr. Rickett indicated that, as the endowment grows, a sec-

### 2000 FINANCIAL STATEMENT

Ending Balance - December 31, 2000	\$29,615.76
Beginning Balance - January 1, 2001	<u>\$26,168.49</u>
Net Gain	\$ 3,447.27

#### DISTRIBUTION OF FUNDS

Checking Account (Firstar Bank, Conway, AR)	\$ 1,139.59
Certificates of Deposit	
Dwight Moore Endowment (Firstar Bank, Conway, AR)	\$ 4,249.79
Life Membership Endowment (Firstar Bank, Conway, AR)	\$14,226.38
CD Unrestricted (Firstar Bank, Conway, AR)	\$ 5,000.00
Phoebe and George Harp Endowment (Firstar Bank, Conway, AR)	\$ 5,000.00
<b>TOTAL</b>	<u>\$29,615.76</u>

#### INCOME:

1. ANNUAL MEETING	\$ 2,520.00
2. ENDOWMENT DONATIONS	
a. AAS Unrestricted	\$ 960.00
b. Dwight Moore	\$ 25.00
c. Life	\$ 25.00
	<u>\$ 1,010.00</u>
3. INTEREST (Endowment)	\$ 1,441.31
4. INDIVIDUAL MEMBERSHIPS	
a. Associate	\$ 285.00
b. Regular	\$ 2,130.00
c. Sustaining	\$ 105.00
d. Sponsoring	\$ 45.00
e. Life	\$ 375.00
	<u>\$ 2,940.00</u>
	\$ 2,940.00

5. INSTITUTIONAL MEMBERSHIPS		\$ 1,500.00	
6. MISCELLANEOUS		\$ 10.00	
7. JOURNAL			
a. Miscellaneous Sales		-0-	
b. Page Charges		\$ 4,240.00	
c. Subscriptions		\$ 2,917.94	
		\$ 7,157.94	\$ 7,157.94
8. INFLOWS			
Phoebe and George Harp Endowment		\$ 5,000.00	
<b>TOTAL INCOME</b>			<b>\$ 21,579.25</b>

**EXPENSES:**

1. ANNUAL MEETING			
a. Conway Trophy (657)	\$ 95.52		
b. Castleberry's Grocery (666)	\$ 89.27		
c. Aramark Campus Services (684)	\$ 407.48		
d. David Saugey (686)	\$ 359.84		
	\$ 952.11	\$ 952.11	
2. AWARDS			
a. Arkansas Junior Academy (660)	\$ 250.00		
b. Arkansas Science Fair (661)	\$ 450.00		
c. Conway Trophy (665)	\$ 281.49		
d. Student Awards	\$ 650.00		
	\$ 1,631.49	\$ 1,631.49	
3. DUES			
National Association of Academies of Science (649)		\$ 62.50	
4. MISCELLANEOUS			
a. Ed Griffin Travel to AAS Conference (656)	\$ 278.00		
b. Arkansas Flag and Banner (654)	\$ 250.80		
c. Arkansas Flag and Banner (655)	\$ 281.52		
d. Arkansas Flora Conference (662)	\$ 200.00		
e. John Rickett (663)	\$ 79.17		
f. Member Underpaid Annual Meeting	\$ 10.00		
	\$ 1,099.49	\$ 1,099.49	
5. NEWSLETTER		-0-	
6. OFFICE EXPENSES		-0-	
7. JOURNAL			
a. Stan Trauth - Editorial Consultation and Travel Volume 53 (653)	\$ 200.00		
b. Pinpoint Color Volume 53 (667)	\$ 13,686.39		
c. Joy Trauth - Editorial Consultant Volume 54 (687)	\$ 500.00		
	\$ 14,386.39	\$ 14,386.39	
<b>TOTAL EXPENSES</b>			<b>\$ 18,131.98</b>

second and third place award may be added. A motion to accept was made by Dr. Hemmati, seconded by Dr. Rickett, and passed.

5. *Journal* Editor-in-Chief: Stan Trauth reported that *Journal* volume #54 has 160 pages within it, same as last year. Stan also requested that the Academy agree to pay the sum of \$200.00 to the Editor-in-Chief for expenses. A motion to do so was made, and that motion will be voted upon at the Second Business Meeting since it involves money.

6. *Journal* Managing Editor's Report: David Saugey described the problem with submission of papers using the wrong format. About 30 to 40 manuscripts will be sent out for review in mid May. Manuscript authors are being asked to provide more information about their plans during the summer months, so that David can find them for manuscript revision. David also requested that the Academy provide the sum of \$600.00 for editorial assistance this year. This is an increase over the \$500.00 received during past years, but is necessary. A motion to provide \$600 this year was made and seconded. Since this involves money, it will be voted upon tomorrow in the Second Business Meeting.

7. *Newsletter* Editor: Jeff Robertson presented his report indicating that any problems associated with the current *Newsletter*, like a place to order banquet tickets, turned out not to be a problem for the banquet is sold out.

8. Historian: Henry Robison described this as the 85<sup>th</sup> meeting of the Academy, and indicated the years when previous meetings of the Academy were held at UCA.

9. Science Fair Association: Mike Rapp was not present at this meeting, but provided a report presented by Dr. Hemmati and read by Mark. Thanks for 18 years of support by the Academy was mentioned. A copy of Mike's report describing meetings during the year 2000 is attached to these minutes. Over 280 students participated in the State Science Fair, and about 80 student participated in the Junior Academy of Science Fair. Again this year, the State Science Fair is requesting the sum of \$450.00 to help cover expenses for nine affiliated Fairs and the State Fair. Motion to provide these funds was made and seconded. That motion will be voted upon at the Second Business Meeting. Rick Geraci and Mark Eakin will be replacing the Skinners for the Junior Academy of Science. A sum of \$250.00 is requested again this year to aid with expenses related to the Junior Academy Science Fairs. A motion to provide this amount was made and seconded. This motion will also be voted upon at the Second Business Meeting.

10. Junior Science and Humanities Association: Tom Palko was not present, and no report was provided.

## Arkansas Academy of Science

11. Intel Talent Search: Jim Murray asked Mark to say that they had only one person in the Search this year, and that this person was given the award. Jim is asking for the sum of \$60.00 to be provided to purchase a plaque for this winner. A motion to provide this amount was made by Dr. Rickett, seconded by Dr. Hardin, and will be voted upon in the Second Business Meeting.
12. Committee Reports:
- Biota Committee: Doug James was not present, so Mark presented the report. Mark indicated that Doug is requesting the sum of \$300.00 from the Academy to put the Biota series on the web. This would involve scanning, editing, up-dating, and proof reading. A motion to approve this amount was made by Dr. Rickett, seconded, and it will be voted upon at the Second Business Meeting.
  - Development Committee: David Saugey indicated that an attempt is being made to solicit money from corporations for an endowment, or for an award at the annual meetings.
  - Nominations: Bob Watson was not present, so Scott Kirkconnell presented the report. Henry Robison was nominated to continue as Historian. There were no additional nominations from the floor, so a motion to appoint was made and seconded. Nominations for vice-president were John Harris of the Arkansas Highway and Transportation Department and Wayne Gray of UAMS. Additional nominations were solicited from the floor. None were forthcoming.
  - Science Education Committee: John Rickett informed the meeting that James Daly is stepping down as head of the Science Education Committee. Mark informed that meeting that this committee is trying to contact two year colleges to encourage there attendance and participation. Dr. Hemmati has graciously agreed to chair the Science Education Committee.
  - AAAS: Ed Griffin is our local representative and was out of town. Mark made the motion to pay Dr. Griffin's expenses. Motion passed.
  - Ad Hoc Committee on Awards: John Rickett presented the material about the Awards Committee. He also outlined the duties and responsibilities of the secretary. A copy of motions outlined by Dr. Rickett is attached to these minutes. Joyce Hardin recommended that we vote on resolutions #4 and #5 in tomorrow's meeting, and table resolutions #1, #2 and #3 until the Fall Executive Committee Meeting. After considerable discussion a motion to accept this recommendation was made by Dr. Rickett, seconded and passed. Matt brought up the possibility of awards for posters. It was decided that this would be up to the local arrangements committees.
- 2002 Meeting: Dr. Rickett indicated that UALR will host the 2002 meeting. The local arrangement committee is attempting to get a UALR alumnus as a Biodiversity speaker at the meetings to be held during the first weekend in April.
  - 2003 and 2004 meetings: Mark indicated that he has sent letters to UAF and ASU indicating that the executive committee has accepted their bids to host these meetings.
  - Bids for 2005: Joyce mentioned that Hendrix College would like to host the 2005 meetings.
  - Old Business: Conflicting meetings of the Junior Science Fair prevented these meetings from being held during the first weekend in April. Henry Robison suggested this is the reason attendance is down.
  - Webpage: Walt Godwin indicated "the web is out there!"
  - Brochure: Dr. Hemmati reminded the meeting that copies of the brochure are present at these meetings. Mark advised Mike to alter the membership forms, so that dues can be paid in advance.
  - Resolution Committee: Mark reminded the Committee of his earlier suggestion, that the Chairman of the Resolution Committee be a responsibility of the Vice President. This should be inserted into the Constitution as recommended by the Executive Committee at the Fall meeting. This was brought before the membership of the Academy.
  - New Business: Matt Walker presented his suggestion that a new award be presented at each annual meeting. This would be a young investigator award, and might be called the Charles Burkover Award, honoring the first president of the Arkansas Academy of Science. It would be presented to an investigator who is employed by a public or private institution in Arkansas, during the first six years of that employment. The recipient should not hold a rank higher than Assistant Professor or its equivalent. Credentials of a recipient, and mechanism for a nomination were discussed. A three-member committee would be developed to screen individuals nominated. The award could consist of paid travel

expenses to the annual meetings and a plaque. Stan discussed eligibility for nomination. John Rickett expressed some concern about particular issues and suggested that the consideration be tabled and studied further at the Fall Executive Committee meeting.

21. **Publication Committee:** Mark indicated that he would charge the Constitution Committee to look into a potential change in the Publication Committee. The Publication Committee presently consists of the Editor-in-Chief, the Managing Editor, plus two additional members. We currently have a pool of associate members. Mark suggests that the two additional members be two of the associate members, so that decisions can be made more easily and without undo delay.
22. **Judicial Committee:** Mark included this issue because it was addressed at the last Executive Committee meeting. The issue is whether we should have a Judiciary Committee. This question evolved out of the problem with the abstract that was not accepted for presentation at the general meeting in Hot Springs. Following much discussion, it was decided that a portion of the Executive Committee should act as the Judiciary Committee only when one is needed. John Rickett suggested that a statement describing worthiness be included with the abstract instructions. Mark brought up a second situation during the banquet in Hot Springs. It was decided to bring this issue up for discussion at the Fall Executive Committee Meeting.
23. **Other:** Bill Shepherd discussed the pairing of sessions at the meetings. For example, Botany and Invertebrate Zoology would be a better pairing than Botany and Vertebrate Zoology. Finally, Dick discussed news from the Forest Service and its "SST" program. This apparently has to do with a "Sweet Smelling Toilet" which he may bring up in the meeting tomorrow.

There being no other new business, a motion to adjourn was accepted.

*SECOND BUSINESS MEETING  
UCA LEWIS SCIENCE CENTER ROOM 102  
APRIL 14, 2001 - NOON*

1. **Call to Order:** Mark officially called the meeting to order at 12:05 pm.
2. **Approval of Minutes:** Mike Soulsby addressed the minutes of the previous Executive Committee Meeting at UALR in September 23, 2000. Misspelled names were addressed. Motion for approval, seconded and approved.
3. **Nominating Committee:** John Rickett presented the report for Dr. Watson, Chairman. His committee submits the following nominations: Historian - Dr. Henry

Robison for another term, Vice President - Dr. Wayne Gray (UAMS) and Dr. John Harris (AHTD). There being no additional nominations from the floor, the motion to cease was made, seconded and passed. Ballots were then distributed for the office of Vice-President for Henry Robison was elected by acclamation.

4. **Treasurer's Report:** Joyce Hardin made certain that all present had a copy of her financial statement. Before going over that statement, Joyce indicated that some page charges for volume #53 are still out. This totals about \$1,000.00. Volume #54 was passed out at the meeting and page charge invoices were mailed out yesterday. Please pay for these invoices by the May 15 due date. Joyce then went over the financial statement, a copy of which is attached to these minutes. David Saugey was applauded for his contribution of proceeds from the Bibliography of Mammals. A motion to accept the report was made by Walter, seconded by Dr. Hemmati, and passed. Mike Soulsby then asked members who were finished with their Vol #53, to please donate them back to the Academy to help cover the shortfall from last year. Joyce indicated that we have received about 75 additional copies of Vol. #54, and we were not charged for them. Hence no shortfall is anticipated this year.
5. **Auditor's Report:** Bob Wiley introduced members of the committee, presented his report and thanked David Saugey for a \$3,500.00 profit from his Bibliography on Mammals. Motion to accept was made, seconded and passed.
6. **Journal Editor-in-Chief's Report:** Stan Trauth reminded the membership that Vol. #54 is available. Since the mailing list is not updated, Stan asked those taking copies back to their respective campuses to scan through and remove copies designated for students and retired faculty. Stan also asked for the Academy to continue an allotment of \$200.00 for the Editor-in-Chief to cover expenses involved. Mark reminded that a motion was made and seconded at yesterday's meeting to allot this amount. That motion passed at this time.
7. **Journal Managing Editor's Report:** David Saugey reminded those in attendance who are submitting a publication for publication to be sure and follow the guidelines in the back inside cover of Vol. #54. Also please let him know how to get in touch with you during the summer for editing and corrections. David also requested the sum of \$600.00 to handle expenses. This is a increase of \$100.00 over previous years' allotments, but is needed to cover increasing expenses. Mark reminded the membership that a motion to fund this amount of \$600.00 was made at yesterday's meeting. That motion was passed at this time.
8. **Newsletter Report:** Jeff Robertson was not present and Dr. Hemmati presented a report.

9. **Historian's Report:** Henry Robison indicated that this is the 85<sup>th</sup> annual meeting of the Academy. He indicated that the annual meeting has been held at UCA during six previous years (1934, 1964, 1974, 1983, 1992, and this year).
10. **Committee Reports:**
  - a. **Biota Committee:** Doug James provided a report presented by Mark. The Committee is requesting the sum of \$300.00 to place the Biota Series on the Web. The Executive Committee approved this amount to scan, edit and send to authors for proofreading. This amount of \$300.00 was passed at this time.
  - b. **Development Committee:** David Saugey indicated that this committee is looking into funding sources in Arkansas and around the country for improving the endowment, scholarships, awards, etc.
  - c. **Science Education Committee:** Mark indicated that James Daly has found it necessary to resign, and that Dr. Hemmati has agreed to take over the chairmanship of this committee. Mark indicated that a goal of the committee will be to get the two-year community colleges involved in the Academy.
  - d. **AAAS:** Mark indicated that Ed Griffin is our representative. A motion to pay airfare for Ed to attend the upcoming annual meeting if San Francisco was made yesterday. The motion to provide the airfare was passed. Ed takes care of all other related expenses.
11. **Science Fair Association:** Mike Rapp was not present, but provided a report read by Mark. The report

thanked the membership of the Academy for their support in previous years. It also listed the names of the State Junior Science Fair winners, and a copy is appended to these minutes. A renewed request for the Academy to continue its support of the State Science Fair, and the Junior Academy activities, to the amount of \$450.00. A motion to provide these funds was made at yesterday's meeting. That motion was passed by the membership.

12. **Junior Science and Humanities Association:** No report given.
13. **Intel Talent Search:** Jim Murray indicated that they had only one person in the search this year, and that this person was given the award. Jim is asking for the sum of \$60.00 to be provided to purchase a plaque for this winner. A motion to provide this amount was in the First Business Meeting. That motion passed at this time.
14. **Resolution Committee Report:** Walt Godwin as committee chairman read the report. He thanked UCA for the meeting, and the local arrangements committee for their labor. He thanked the Guest Speaker and Dean Toll for an excellent meeting. He also thanked the judges for their time and efforts. Winners at the meetings were congratulated. A copy of the report is attached to these minutes.
15. **Awards:** Mark turned the awards presentation over to Paul Hamilton. A copy of Paul's report listing the recipients of the awards is attached to these minutes. Photographs of winners present were taken. Poster awards were also presented. Joyce reminded that monetary awards will be mailed directly to the winners.

Level	Award Type	Category	Name	School
Undergraduate	1st	Physical Sciences	Matthew Tilley	Arkansas State University
Undergraduate	2nd	Physical Sciences	Reagan Baber	Harding University
Undergraduate	3rd	Physical Sciences	Brandon Lindley	University of Central Arkansas
Undergraduate	Honorable Mention	Physical Sciences	Kyland Holmes	Hendrix College
Undergraduate	Honorable Mention	Physical Sciences	L. A. Thornton, Jr.	Arkansas State University
Undergraduate	Honorable Mention	Physical Sciences	Bryan Gipson	University of Central Arkansas
Undergraduate	1st	Life Sciences	Leah Lucio	University of Arkansas at Little Rock
Undergraduate	2nd	Life Sciences	Becky Hicklin	University of Arkansas at Little Rock
Undergraduate	3rd	Life Sciences	Cameron Good	University of Central Arkansas
Undergraduate	1st	Environmental Sciences	Brenna Fitzgerald	Hendrix College
Undergraduate	2nd	Environmental Sciences	Randall Staley	Arkansas State University
Undergraduate	3rd	Environmental Sciences	Kelly Osborn	Hendrix College
Graduate	1st	Physical Sciences	Marilyn Egan	University of Arkansas at Little Rock
Graduate	2nd	Physical Sciences	Daniel Bullock	University of Arkansas
Graduate	3rd	Physical Sciences	Abbas Eyuboglu	University of Arkansas at Little Rock
Graduate	1st	Life Sciences	Malcolm McCallum	Arkansas State University
Graduate	2nd	Life Sciences	Robin Stingley	University of Arkansas for Medical Sciences
Graduate	3rd	Life Sciences	David Feldman	Arkansas State University
Graduate	1st	Environmental Sciences	Michele Renschin	University of Arkansas at Monticello
Graduate	2nd	Environmental Sciences	Lann Wilf	Arkansas State University
Graduate	3rd	Environmental Sciences	Jeremy Jackson	Arkansas State University
Undergraduate	1st	Poster Presentation	Erin Sizemore	University of Central Arkansas
Undergraduate	2nd	Poster Presentation	Emily Rickman	Arkansas State University
Undergraduate	3rd	Poster Presentation	Sara Richardson	University of Central Arkansas
Graduate	1st	Poster Presentation	DeLynn Hearn Holleman	University of Central Arkansas
Graduate	2nd	Poster Presentation	Jason Walker	University of Central Arkansas
Graduate	3rd	Poster Presentation	Ralph Meeker	University of Central Arkansas

Secretary's Report

1. Arrangements Committee: Paul Hamilton indicated that 233 persons registered for this meeting, 120 tickets were sold for the mixer and banquet, 125 presentations, 104 oral and 21 poster presentations.
1. Old Business: Henry Robison suggested that if a host institution finds a conflict for its meetings during the first weekend in April, the Executive Committee be notified, and it find an alternate institution.
18. Webpage: Walt Godwin indicated the address, and emphasized that it is up and running.
19. Brochure: Dr. Hemmati reminded those present that the brochure is available to be distributed at institutions throughout Arkansas.
20. Resolution Committee: Mark defined the motion to add to the Constitution that the Vice-President serve as chair of the Resolution committee. This motion was passed at this time.
21. Young Investigator Award: Matt Walker reminded the meeting that this will be discussed at the Fall Executive Committee Meeting. He redefined the intent of the Young Investigator Award, the qualifications of nominees, and the method of nomination.
22. Publication Committee: Mark indicated that the Constitutional Committee will look into the make-up of this committee. Associate Editors could be used as a pool of individuals to serve on this committee. This charge will also be considered at the Fall Executive Committee Meeting.
23. Judicial Committee: Mark included this issue because it was addressed at the last Executive Committee meeting. The issue is whether we should have a Judiciary Committee? This question evolved out of the problem with the abstract that was not accepted for presentation at the general meeting in Hot Springs. Following much discussion, it was decided that a portion of the Executive Committee should act as the Judiciary Committee only when one is needed. Mark also brought up a second situation during the banquet in Hot Springs. It was decided to bring this issue up for consideration at the Fall Executive Committee Meeting.
24. New Business:
  - a. Election of Officers: Dr. Hemmati indicated that Dr. Wayne Gray was the winner of the election for vice-president.

b. Other: There was no additional new business.

25. Recognitions: Mark expressed his appreciation to those involved in this meeting. He also thanked the current officers. Robert and Raynell Skinner have a plaque waiting for them. Rick Geraci and Mark Eakin will take over for the Skinners. Dr. Rickett then presented a plaque to Mark Draganjac and discussed his plans for the upcoming year.

The meeting was adjourned following Dr. Rickett's comments.

APPENDIX A

**TO:** Arkansas Academy of Science Members  
(c/o Dr. Joyce Hardin)  
**FROM:** Michael Rapp, Director - State Science Fair  
Bob & Raynell Skinner, Co-Directors, Arkansas  
Junior Academy of Science  
**DATE:** April 6, 2001  
**RE:** Report on Science Fairs & Arkansas Junior  
Academy of Science

Thank you for the support the Academy has provided for the past eighteen years, both in terms of members of the AAS serving as judges and in terms of financial support. This memo serves as a report of the Science Fairs and Junior Academy of Science Meetings held in Arkansas during 2000.

Central (held at UAMS, Mar. 10): Gary Earleywine, fair director, and Marian Douglas, Jr. Acad. director.

North Central (Lyon College, Batesville, Mar. 16): Beverly Meinzer, fair director, and Kathy Campbell, Jr. Acad. director.

North East (Ark. State Univ., Jonesboro, Mar. 2-3): Marty Huss, fair director, and Ron Johnson, Jr. Acad. director.

North West (Univ. of Ark., Fayetteville, Mar. 16): Lynne Hehr, director of fair and Junior Academy.

South Central (Henderson State Univ., Arkadelphia, Mar. 16): Sherry Lane, fair director, and David Brooks, Jr. Acad. director.

South East (Univ. of Ark-Monticello, Mar. 6): Jim Edson fair director.

South West (Camden, Mar. 23): Cindy Riggs, director of fair and Junior Academy.

West Central (ASMS, Hot Springs, Mar. 12-13): Shane Willbanks, director of fair and Junior Academy.

State Science Fair (UCA, Conway, Apr. 5-6): Michael Rapp, director of fair and Bob & Raynell, co-directors of Junior Academy.

Over 280 students participated in the state science fair, and about 80 students in the state Junior Academy of Science meeting, held April 5-6 in Conway, on the campus of the University of Central Arkansas.

A previous request has been submitted that the Academy continue its support of this year's state science fair activities and Junior Academy of Science meeting. Specifically, \$450 is requested by the Arkansas Science Fair Association to help cover expenses (\$50 for each of the nine affiliated fairs in Arkansas) for students being sent to the Intel International Science & Engineering Fair (ISEF), and \$250 is requested by the Arkansas Junior Academy to help send students to the American Junior Academy of Science meeting. A previous request has also been submitted that the work of the above individuals be recognized by the Academy membership and that this acknowledgement be included in the *Journal*. Those requests are duplicated below.

## APPENDIX B

### RESOLUTIONS

Be it resolved that we, the membership of the Arkansas Academy of Science, offer our sincere thanks to the University of Central Arkansas for hosting the 2001 meeting of the Arkansas Academy of Science. In particular, we thank the Local Arrangements Committee for an outstanding job of organizing the meeting: Paul V. Hamilton (Chair), Thomas M. Walker (Co-Chair, Abstracts/Program), James Murray (Audio/Visual), Patrick Desrochers (Poster Session), Rahul Mehta (Judging), Dave Peterson (Registration), Ben Waggoner (Web Design), and all the student workers and staff who collectively contributed to a very successful meeting. Appreciation is expressed for the excellent facilities and the hospitality shown to us by all University of Central Arkansas personnel. We truly appreciate Dr. Jere Lipps for his presentation "Beyond Reason: Science and the Mass Media", which delivers a most timely (and entertaining) reminder of our need to create a more scientifically literate public. We thank Dean Ronald Toll for his support in bringing Dr. Lipps as our keynote speaker.

The Academy recognizes the important role played by the various section chairpersons and expresses sincere appreciation to George Harp (Invertebrate Zoology), Wayne Gray (Microbiology, Parasitology, & Biomedical Sciences), Haydar J. Al-Shukri (Geology & Hydrology), Rose McConnell (Biological & Organic Chemistry), Elizabeth Murray (Terrestrial Ecology), Jim Winter (Mathematics & Science Education), Danny Arrigo and Fred Hickling (Mathematics), David Jamieson, J.D. Wilhide, and David Dussourd (Vertebrate Zoology), Gary Tucker, Daniel Marsh, and Hong Li Wang (Botany & Plant Biology), Brian Wagner,

Elizabeth Murray, and John Rickett (Aquatic Ecology & Ecotoxicology), Wally Cordes, Jon Russ, and Scott Reeve (General & Inorganic Chemistry), Bin Zhang and Andrew Sustich (Physics & Astronomy).

A special thanks is owed to individuals devoting considerable time and energy to judging student papers: Haydar J. Al-Shukri, Cathy Baker, Steven Barger, C. F. Chen, John Graham, Mostafa Hemmati, J. Bruce Johnson, Bao-An Li, Rahul Mehta, Matt Moran, Russell Nordeer, Thomas E. Nupp, Ann Paterson, John D. Rickett, Jeff Robertson, Andrew Sustich, Hong Li Wang, and Heather Woolverton.

We express gratitude to the various directors and the science and youth activities that are supported by the Academy: Steve Long (President, Arkansas Science Teachers Association), Michael Rapp (Director, State Science Fair), Robert and Raynell Skinner (Co-Directors, Arkansas Junior Academy of Science), Tom Palko (Junior Science and Humanities Association), and Jim Murray (Director, Intel Talent Search). We wish to thank all those who served as directors at science fairs and Junior Academy meetings: Gary Earleywine and Marian Douglas (Central Region), Beverly Meinzer and Kathy Campbell (North Central Region), Marty Huss and Ron Johnson (North East Region), Lynne Hehr (North West Region), Sherry Lane and David Brooks (South Central Region), Jim Edson (South East Region), Shane Wilbanks (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: Mark Draganjac (President), John Rickett (President-Elect), Walt Godwin (Vice-President), Michael Soulsby (Secretary), Joyce Hardin (Treasurer), Mostafa Hemmati (Past President), Stanley Trauth (*Journal* Editor-in-Chief), David Saugey (*Journal* Managing Editor), Jeff Robertson (*Newsletter* Editor), and Henry Robison (Historian). In addition, the Academy expresses appreciation to all those individuals who have contributed their time and effort 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 directly responsible for the future success of the Academy, and the continuation of science education and research in Arkansas.

Respectfully submitted,  
Resolution committee:  
Dr. Walt Godwin (chair)  
Dr. Bao-An Li  
Dr. Andrew Sustich



## APPENDIX C

**Report to the  
ARKANSAS ACADEMY of SCIENCE  
by the  
ARKANSAS JUNIOR ACADEMY of SCIENCE  
April 13, 2001**

**Participation.** The AJAS state contest was held at the University of Central Arkansas on April 7, 2001. 82 high school Students participated, an increase of 18% over 2000, from 7 of 8 regions representing 16 high schools participated.

**Abstracts volume.** For this meeting, Vol. 7 of the abstracts of the students participating in the Arkansas Junior Academy of Science Abstracts was published and distributed to the entrants. A copy is attached.

**Attendance at American Junior Academy of Science meeting.** Attending the meeting of the American Junior Academy of Science in San Francisco, CA February 14-18, 2001 and representing the AJAS were two students and a teacher/sponsor. The students, who were top winners in the state AJAS Jr./Soph/Fresh division in Apr. 2000, were: Alexandria Toll (Conway H.S. East) and Michael Johnson (Nettleton H.S., Jonesboro, AR). The sponsor, a high school science teacher, was Mr. Ron Seymour (Conway H.S. East). The AJAS paid 50% of the travel and registration fees for one student and the teacher/sponsor. This meeting is held in conjunction with the meeting of the American Association for the Advancement of Science. The Arkansas delegation has a second registration for the AAAS meeting and interacts with working scientists in breakfast meetings, poster presentation sessions, and informal discussions.

**New AJAS directors.** The incoming directors of the AJAS, Mr. Rick Geraci, P.E. and Mr. Mark Eakin, P.E. attended the meeting with regional AJAS directors and science teachers at noon on Friday, April 6. They also attended the meeting of the Junior Academy on Saturday morning, participated as judges in the contests, and observed the behind-the-scenes activities. The Junior Academy is very excited about having Rick and Mark assume the directorship of the AJAS.

**Thanks.** The AJAS wishes to thank the senior academy for their continued encouragement and monetary support.

Submitted by:

Robert D. Skinner, Ph.D.  
Past State Director

## APPENDIX D

**MOTIONS TO:** Arkansas Academy of Science Executive Committee and General Membership

**FROM:** John Rickett, Chair of Constitution Committee and ad hoc awards program revision committee

**DATE:** 13 April 2001

**MOTION 1:** The proposed guidelines (attached) for administering the Arkansas Academy of Science student awards program be adopted.

**MOTION 2:** The proposed guidelines (attached) for administering the Arkansas Academy of Science student awards program, if adopted, be added to the Constitution as Appendix C.

**MOTION 3:** The following bold-faced phrase be inserted into the description and charge of the AWARDS COMMITTEE in the Constitution. (section to be deleted is italicized)

**AWARDS COMMITTEE:** The Awards Committee shall be named by the Local Arrangements Committee for the upcoming annual meeting. The Committee shall consist of a Chair and as many additional members as the Chair and/or Local Arrangements Committee deem necessary. The Awards Committee shall *evaluate* **adhere to approved guidelines (Appendix C of Constitution) for evaluating** undergraduate and graduate paper presentations during the annual meeting and make recommendations for the various awards established by the Executive committee.

**MOTION 4:** The document titled "General suggestions and outline for hosting an Arkansas Academy of Science annual meeting" be adopted as our formal set of guidelines, and the Secretary be charged to maintain custody of the document and provide at least one copy of such to each Local Arrangements Committee chair.

Comment: The Executive Committee has reviewed this document and approved it. Since it is fairly sizable, we decided not to prepare a copy for every member in attendance to review, but there are a few copies around should you wish to review it before voting.

**MOTION 5:** The Secretary shall be the permanent custodian of our Constitution and instructed to provide each newly elected Vice President a current copy.

**ARKANSAS ACADEMY OF SCIENCE**

**GUIDELINES FOR STUDENT PAPER JUDGING & AWARDS PROCEDURES**

**NOTE TO LOCAL ARRANGEMENTS COMMITTEE:**  
 You must assign some papers to the Environmental Science section—enough to provide three winning places at the undergraduate and one at the graduate level. We have to keep this pattern consistent or AEF may pull their contribution and the Harp Endowment award is specifically targeted to the graduate level environmental. The committee is allowed the judgment as to which papers fit into the Environmental section best.

The Local Arrangements Committee shall establish a reasonable registration fee sufficient to cover expenses of the meeting, open a checking account briefly to pay local expenses, settle up after the meeting and submit any leftover monies to the Academy Treasurer. Keep in mind the Annual Meeting should pay for itself, but should not be used as a money-making endeavor. (Although this isn't in the Constitution, it has been the general attitude of the Executive Committee and standard procedure for the past 20 or so years).

**GUIDELINES FOR AWARDS COMMITTEE:**

Undergraduate    Graduate

**A. Categories –**

- |  |   |   |
|--|---|---|
| 1. Environmental Science   | 1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> | 1 <sup>st</sup> (*)                                 |
| (May include certain papers on aquatic environments, environmental chemicals zoology, etc.)            |   |   |
| 2. Life Science  | 1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> | 1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> |
| (Includes Botany, Biomedical, some Biochemical, some Aquatic/ Environmental, Invert. Zoo., Vert. Zoo.) |   |   |
| 3. Physical Science  | 1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> | 1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> |
| (Includes Applied Science, Chemistry, Biochemistry, Geology, Physics & Astronomy)                      |   |   |

**Notes –**

- Awards are given per category; not per session (there may be more that one session of some categories)
  - Second or third places may not be used, depending on the number of papers in a given category and/or the quality of the presentations.
- (\*) As this endowment grows, 2<sup>nd</sup> and possibly 3<sup>rd</sup> place levels may be added

**B. Monetary awards –**

- All undergraduate awards are supported by an annual gift from Arkansas Environmental Federation; 1<sup>st</sup>

place receives \$100, 2<sup>nd</sup> and 3<sup>rd</sup> places receive \$50 each.

- The graduate Environmental Science award is supported by interest from the George and Phoebe Harp Endowment fund (1<sup>st</sup> place receives \$150; 2<sup>nd</sup> place [when instituted] will receive \$100; 3<sup>rd</sup> place [when instituted] to be determined by mutual consent)
- Graduate Life Science and graduate Physical Science awards are supported by the Arkansas chapters of Sigma Xi (??amounts??)

C. Papers in each category at each level shall be heard by at least two judges (three are recommended) (18 total). Each judge must hear and evaluate every qualified paper in his/her category/level. A judge who has a student presenting a paper being evaluated for an award shall excuse himself/herself due to a conflict of interests. (WHOEVER IS ARRANGING THE SEQUENCE OF PAPERS MUST ALLOW FOR JUDGES TO MOVE BETWEEN SESSIONS/ROOMS EASILY, IF NECESSARY, AND HEAR EACH PAPER IN HIS/HER ASSIGNED CATEGORY.)

D. Poster presented papers shall not be judged with the same criteria or with the same judges as orally presented papers. A panel of three additional judges shall evaluate all posters and award "honorable mention" to the better ones, if determined appropriate by the Local Arrangements Committee.

E. The abstract form shall contain the three category options in which the author(s) shall designate the paper to be judged.

F. Some variability in the foregoing shall be allowed, depending on the number and nature of the papers/posters being presented, but every reasonable effort shall be made to maintain fidelity with the procedures agreed to by the donors of the monetary awards.

G. All judges should be provided with a standard paper judging form.

Suggested standard paper judging form:

ARKANSAS ACADEMY OF SCIENCE  
STANDARD STUDENT PAPER JUDGING FORM

Name of presenter \_\_\_\_\_ Category \_\_\_\_\_

Title \_\_\_\_\_

Criteria: (assign a score of 1 (worst) to 5 (best) for each item:

A Scientific merit

- 1. Experimental design (completeness, complexity, appropriateness) \_\_\_\_\_
- 2. Adequacy of the data \_\_\_\_\_
- 3. Use of statistics \_\_\_\_\_
- 4. How well do the conclusions fit the data? \_\_\_\_\_
- 5. Thoroughness and appropriateness of literature references \_\_\_\_\_

B. The presentation

- 1. How clearly did the speaker talk? \_\_\_\_\_
- 2. Were visual aids well done and used appropriately? \_\_\_\_\_
- 3. Were details clearly explained? \_\_\_\_\_
- 4. Were the conclusions clearly stated? \_\_\_\_\_

C. Project appropriateness

- 1. Does this project contribute valuably to science? \_\_\_\_\_
- 2. Appropriate narrowness/broadness of the paper \_\_\_\_\_
- 3. How much practical, social or commercial value? \_\_\_\_\_

**TOTAL** \_\_\_\_\_

**RANK IN CATEGORY** \_\_\_\_\_ of \_\_\_\_\_

**MEMBERS 2001**

FIRST MI	LAST NAME	INSTITUTION
Al	Adams	University of Arkansas at Little Rock
Robbin C.	Anderson	University of Arkansas at Fayetteville
Max L.	Baker	University of Arkansas for Medical Sciences
Gene Lee	Bangs	University of Arkansas at Little Rock
Gwen	Barber	Arkansas Tech University
Victor	Blunt	University of Arkansas at Pine Bluff
Stephen K.	Boss	University of Arkansas at Fayetteville
Frank	Bowers	University of Wisconsin-Stevens Point
Jimmy D.	Bragg	Henderson State University
Edwin S.	Braithwaite	Cedarville College
William D.	Brown	University of Arkansas at Fayetteville
Thomas	Buchanan	Westark Community College
John	Bush	University of Arkansas at Little Rock
Michael E.	Cartwright	Arkansas Game & Fish Commission
Stanley L.	Chapman	University of Arkansas at Fayetteville
Vincent A.	Cobb	Ouachita Baptist University
Lynita	Cooksey	Arkansas State University
Marc	Corrigan	University of Arkansas at Monticello
Betty	Crump	U.S.D.A., Forest Service
Donald	Culwell	University of Central Arkansas
James T.	Daniels	Southern Arkansas University
Perry A.	Daniels	Arkansas State University
Jerry A.	Darsey	University of Arkansas at Little Rock
Chris	Davidson	
Patrick	Desrochers	University of Central Arkansas
Peggy Rae	Dorris	Henderson State University
Rudolph J.	Eichenberger	Southern Arkansas University
Robert	Engelken	Arkansas State University
Don	England	Harding University
James	Engman	Henderson State University
E. P. (Perk)	Floyd	U.S. Public Health Service
Thomas L.	Foti	Natural Heritage Commission
Charlie	Gagen	Arkansas Tech University
Wayne	Gildseth	Southern Arkansas University
Crissy Patterson	Goss	Hampton High School
John P.	Graham	Arkansas Tech University
Wayne L.	Gray	University of Arkansas for Medical Sciences
Reid	Green	U.S. Geological Survey
Brian	Greuel	John Brown University
Richard S.	Grippio	Arkansas State University
Paul V.	Hamilton	University of Central Arkansas
Earl L.	Hanebrink	Arkansas State University-retired
Franklin D.	Hardcastle	Arkansas Tech University
John L.	Harris	Arkansas Highway & Transportation Dept.
Michael J.	Harvey	Tennessee Tech University
Roger M.	Hawk	University of Arkansas at Little Rock
Marsha	Hendricks	Harding University
Kristine	Herbert	Westpark Community College
Larry R.	Hilburn	Black River Technical College
Jim	Huey	University of Arkansas at Monticello
Philip E.	Hyatt	USDA, Forest Service
M. D.	Jalaluddin	University of Arkansas at Pine Bluff
David	Jamieson	Arkansas State University-Beebe/Newport
James E.	Johnson	University of Arkansas at Fayetteville
Michael I.	Johnson	Nettleton High School
Hugh	Johnson	Southern Arkansas University
Thurman O.	Jordan	Arkansas Audubon Society
Jay	Justice	Arkansas Dept. Pollution Control & Ecology
Mark	Karnes	The Ross Foundation
Philip L.	Kehler	University of Arkansas at Little Rock
Terry	Keisling	University of Arkansas at Fayetteville
Scott W.	Kirkconnell	Arkansas Tech University
Maurice G.	Kleve	University of Arkansas at Little Rock
Richard	Kluender	University of Arkansas at Monticello
Roger E., II	Koeppe	University of Arkansas at Fayetteville
Randall A.	Kopper	Hendrix College
Timothy	Kral	University of Arkansas at Fayetteville
Norman	Lavers	Arkansas State University
Stephen A.	Leslie	University of Arkansas at Little Rock
Hal O.	Liechty	University of Arkansas at Monticello
Brian	Lockhart	University of Arkansas at Monticello
Dan	Magoulick	University of Central Arkansas
Daniel L.	Marsh	Henderson State University
John E.	Marshall	Biotechnical Services Inc.
Robert	Maruca	Arkansas Tech University
H. Michael	Mathews	Henderson State University

FIRST MI	LAST NAME	INSTITUTION
Russell B.	McAllister	Arkansas Dept. Pollution Control & Ecology
V. Rick	McDaniel	Arkansas State University
Richard	Meyer	University of Arkansas at Fayetteville
Muhammad A.	Miah	University of Arkansas at Pine Bluff
Cristin	Milam	Arkansas State University
Lawrence A.	Mink	Arkansas State University
Paul	Mixon	Arkansas State University
Warren	Montague	U.S. Forest Service
Cindy	Moore	Westark Community College
Matthew	Moran	Hendrix College
Leland F.	Morgans	University of Arkansas at Little Rock
James A.	Murray	University of Central Arkansas
Tom	Nelson	Eastern Illinois University
Ronald E.	Nelson	Arkansas Tech University
Russell	Nordeen	University of Arkansas at Monticello
Thomas	Nupp	Arkansas Tech University
Joseph O.	Owasoyo	University of Arkansas at Pine Bluff
Don R.	Owens	University of Arkansas at Little Rock
Michael J.	Panigot	Arkansas State University
Mark A.	Paulissen	McNeese State University
Michael V.	Plummer	Harding University
William R., II	Posey	Department Pollution Control & Ecology
Donna G.	Quimby	University of Arkansas at Little Rock
James A.	Rasmussen	Southern Arkansas University
Darryl K.	Reach	University of Arkansas at Little Rock
Scott W.	Reeve	Arkansas State University
Dennis J.	Richardson	Quinnipiac College
Jeff W.	Robertson	Arkansas Tech University
Joe	Rosen	University of Central Arkansas
Karen	Rowe	Arkansas Game & Fish Commission
Steven W.	Runge	University of Central Arkansas
Charles J.	Scifres	University of Arkansas at Fayetteville
Frank L.	Setliff	University of Arkansas at Little Rock
Larry	Seward	John Brown University
Stephen A.	Sewell	University of Mississippi
Elwood B.	Shade	University of Arkansas at Monticello
Ali U.	Shaikh	University of Arkansas at Little Rock
William M.	Shepherd	Arkansas Natural Heritage Commission
Robert A.	Sims	University of Arkansas at Little Rock
Robert	Skinner	University of Arkansas for Medical Sciences
Kimberly G.	Smith	University of Arkansas at Fayetteville
Richard D.	Smith	Pulaski Tech College
Roy J.	Smith, Jr.	U.S.D.A./University of Arkansas
Thomas	Soerens	University of Arkansas at Fayetteville
Frederick W.	Speigel	University of Arkansas at Fayetteville
Richard W.	Standage	U.S. Forest Service
Joseph N.	Stoeckel	Arkansas Tech University
Eric	Sundell	University of Arkansas at Monticello
Phil	Tappe	University of Arkansas at Monticello
William R.	Teague	University of Arkansas at Fayetteville
Wayne E.	Throgmartin	Southern Illinois University
D. S.	Tomer	University of Central Arkansas
Staria	Vanderpool	Arkansas State University
Brian	Wagner	Arkansas Game & Fish Commission
Richard B.	Walker	University of Arkansas at Pine Bluff
Stephen A.	Walker	
Gerald	Walsh	
Robert L.	Watson	University of Arkansas at Little Rock
James O.	Wear	V.A. Medical Center
Jerry	Webb	University of Arkansas at Monticello
Rayona	Webster	Cossatot Technical College
Robert	Weih	University of Arkansas at Monticello
Delores	Wennerstrom	Pulaski Academy
David	Wennerstrom	University of Arkansas for Medical Sciences
Todd	Wiebers	Henderson State University
J. D.	Wilhide	Arkansas State University
Edmond W.	Wilson, Jr.	Harding University
Joe E.	Winstead	Southern Arkansas University
Donald C.	Wold	University of Arkansas at Little Rock
Heather L.	Woolverton	University of Central Arkansas
Andrew	Wright	University of Arkansas at Little Rock
Tsunemi	Yamashita	Arkansas Tech University
J. Lyndal	York	University of Arkansas for Medical Sciences

**SUSTAINING MEMBERS**

Malcolm K.	Cleaveland	University of Arkansas at Fayetteville
Edward E.	Dale, Jr.	University of Arkansas at Fayetteville
David L.	Davies	University of Arkansas for Medical Sciences

Secretary's Report

FIRST MI	LAST NAME	INSTITUTION	FIRST MI	LAST NAME	INSTITUTION
Edmond E.	Griffin	University of Central Arkansas	Diana	Lindquist	University of Arkansas at Little Rock
Paul M.	Nave	Arkansas State University	Donna	Moore	University of Arkansas at Fayetteville
Alvin R.	Nisbet	Ouachita Baptist University	Dan C.	Phan	University of Arkansas for Medical Sciences
Clinton	Orr	University of Arkansas/Pine Bluff	Robin	Roggio	University of Arkansas at Fayetteville
Joseph R.	Penor	University of Arkansas at Little Rock	Lori	Sale	Arkansas Tech University
Paul C.	Sharrah	University of Arkansas at Fayetteville	Garrett	Sanford	University of Arkansas at Fayetteville
Saueel	Siegel	University of Arkansas at Fayetteville	Stephen R.	Skinner	University of Arkansas at Fayetteville
Felix K.	Tendeku	University of Arkansas at Pine Bluff	Frances	Terry	Arkansas Tech University
Ruby	Timmerman	Rich Mountain Community College	Jeremy	Warford	Hendrix College
William M.	Willingham	University of Arkansas at Pine Bluff	Theo	Witsell	University of Arkansas at Little Rock
Steve	Zimmer	Arkansas Tech University	Timothy W.	Wofford	University of Arkansas at Little Rock

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Thomas J.	Lynch	University of Arkansas at Little Rock
Rose	McConnell	University of Arkansas at Monticello
Mursha	Rowe	Stamps High School
Michael E.	Soulsby	University of Arkansas for Medical Sciences

LIFE MEMBERS

Robbin C.	Anderson	University of Arkansas at Fayetteville
Edmond J.	Bacon	University of Arkansas at Monticello
Vernon	Bates	Ouachita Mtns. Biological Station
Willfred J.	Braithwaite	University of Arkansas at Little Rock
David	Chittenden	Arkansas State University
Calvin	Cotton	Geographics Silk Screening Co.
Fred	Dalske	University of Central Arkansas
James J.	Daly	University of Arkansas for Medical Sciences
Leo Carson	Davis	Southern Arkansas University
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Mark	Draganjac	Arkansas State University
Jim	Edson	University of Arkansas at Monticello
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William L.	Evans	University of Arkansas at Fayetteville
Kim	Fifer	University of Arkansas for Medical Sciences
James H.	Fribourgh	University of Arkansas at Little Rock
Arthur	Fry	University of Arkansas at Fayetteville
Collis R.	Geren	University of Arkansas at Fayetteville
John	Giese	Ark. Dept. of Pollution Control & Ecol.
Walter E.	Godwin	University of Arkansas at Monticello
Joe M.	Guenter	University of Arkansas at Monticello
Joyce M.	Hardin	Hendrix College
George L.	Harp	Arkansas State University
Phoebe A.	Harp	Arkansas State University
Gary A.	Heidt	University of Arkansas at Little Rock
Ronnie	Helms	University of Arkansas at Fayetteville
Mostafra	Hemmati	Arkansas Tech University
Carol A.	Jacobs	
Douglas	James	University of Arkansas at Fayetteville
Arthur A.	Johnson	Hendrix College
Cindy	Kane	University of Arkansas for Medical Sciences
Donald R.	Mattison	University of Pittsburgh
Roland E.	McDaniel	FTN Associates, Ltd.
Herbert	Monoson	Ark. Science & Technology Authority
Clementine	Moore	
Gaylord M.	Northrop	University of Arkansas at Little Rock
Tom	Palko	Arkansas Tech University
James H.	Peck	University of Arkansas at Little Rock
Michael W.	Rapp	University of Central Arkansas
John D.	Rickett	University of Arkansas at Little Rock
Henry W.	Robison	Southern Arkansas University
David A.	Saughey	U.S. Forest Service
Betty M.	Speairs	Ouachita Mtns. Biological Station
Richard K.	Speairs	Ouachita Mtns. Biological Station
George E.	Templeton	University of Arkansas at Fayetteville
Stanley E.	Trauth	Arkansas State University
Gary	Tucker	FTN Associates
Renn	Tumison	Henderson State University
James L.	Wickliff	University of Arkansas at Fayetteville
Robert W.	Wiley	University of Arkansas at Monticello

STUDENT MEMBERS

Mathues S.	Doss	Arkansas Tech University
David C.	Hearn	University of Arkansas at Fayetteville
Kristy	Jones	John Brown University
Sailesh	Kumar	University of Arkansas at Little Rock