

2003

## 87th Annual Meeting, 2003. Secretary's Report and Financial Statement

Academy Editors

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# JOURNAL ARKANSAS ACADEMY OF SCIENCE

ANNUAL MEETING 4-5 APRIL 2003  
UNIVERSITY OF ARKANSAS AT FAYETTEVILLE

**Walt Godwin**  
President

**Wayne Gray**  
President-Elect

**Jeff Robertson**  
Secretary

**Joyce Hardin**  
Treasurer

**Ed Griffin**  
NAAS Delegate

**Henry Robison**  
Historian

## *Secretary's Report*

### MINUTES OF THE 87TH MEETING

#### *FIRST BUSINESS MEETING*

*University of Arkansas-Fayetteville BELL Center  
APRIL 4, 2003*

1. Call to Order: Walt Godwin, President of the AAS, called the meeting to order at 11:00 am with a welcome to all participants. He indicated that the very best thing that we could do as members is to PARTICIPATE and encourage our colleagues to PARTICIPATE in the Arkansas Academy of Science and to PUBLISH in the Journal as it is a PEER REVIEWED journal.
2. Historian: Henry Robison reported that this is the 87th annual meeting of the Arkansas Academy of Science, the 13th such meeting held at Fayetteville and that it had been 12 years since the meeting had last been on the University of Arkansas-Fayetteville campus. Previous meetings included 1937, '40, '48, '51, '54, '61, '65, '69, '72, '78, '84, and 1991.
3. Local Arrangements Chair: Greetings and welcome on behalf of the University to the AAS membership were given by Collis Geren. He expressed his thanks to the many people who have prepared to host the meeting and gave particulars about the facilities and activities planned.
4. Secretary: The minutes from 2002 business meetings at the UALR campus were compiled by Wayne Gray and distributed for approval by vote at the second business meeting. Jeff Robertson reported on the current membership list that included approximately 150 members and 50 student members to the Academy. A request for \$200 was made to offset mailing charges incurred for the AAS mailings, the Newsletter, and Journals that were not picked up at the annual meeting which will be voted on at the second business meeting.
5. Treasurer: Joyce Hardin distributed the AAS 2002 Financial statement to the membership. She indicated that because of changes in checking and banking charges the AAS now uses Bank of Ozarks, Conway

#### 2002 FINANCIAL STATEMENT

|                                     |                     |
|-------------------------------------|---------------------|
| Ending Balance - December 31, 2002  | \$ 28,720.77        |
| Beginning Balance - January 1, 2002 | <u>\$ 28,665.45</u> |
| Net Gain                            | \$ 55.32            |

#### DISTRIBUTION OF FUNDS

|  |                     |
|--|---------------------|
| Checking Account (Bank of Ozarks, Conway, AR)                    | \$ 1,017.72         |
| Certificates of Deposit  |                     |
| Dwight Moore Endowment<br>(Bank of Ozarks, Conway, AR)           | \$ 4,757.24         |
| Life Membership Endowment<br>(Bank of Ozarks, Conway, AR)        | \$ 12,500.00        |
| CD Unrestricted<br>(US Bank, Conway, AR)                         | \$ 5,000.00         |
| Phoebe and George Harp Endowment<br>(Bank of Ozarks, Conway, AR) | \$ 5,445.81         |
| <b>TOTAL</b>   | <u>\$ 28,720.77</u> |

#### INCOME:

|                           |                    |
|---------------------------|--------------------|
| 1. ANNUAL MEETING         | \$ 2,555.89        |
| 2. ENDOWMENT DONATIONS    |                    |
| a. AAS Unrestricted       | \$ 25.00           |
| b. Moore                  | <u>\$ 25.00</u>    |
|                           | \$ 50.00           |
| 3. INTEREST               | \$ 665.98          |
| 4. INDIVIDUAL MEMBERSHIPS |                    |
| a. Associate/Student      | \$ 800.00          |
| b. Regular                | \$ 2,830.00        |
| c. Sustaining             | \$ 70.00           |
| d. Sponsoring             | \$ 0.00            |
| e. Life                   | <u>\$ 0.00</u>     |
|                           | \$ 3,700.00        |
|                           | <u>\$ 3,700.00</u> |

## Secretary's Report

|  |             |             |                     |
|--|-------------|-------------|---------------------|
| 5. INSTITUTIONAL MEMBERSHIPS                                       |             | \$ 2,100.00 |                     |
| 6. MISCELLANEOUS   |             |             |                     |
| a. Memorial - John Rickett   | \$ 100.00   |             |                     |
| b. Uncleared check (#699-18 months)                                | \$ 50.00    |             |                     |
|  | \$ 150.00   | \$ 150.00   |                     |
| 7. JOURNAL   |             |             |                     |
| a. Miscellaneous Sales   | \$ 2,850.00 |             |                     |
| b. Page Charges  | \$ 6,120.00 |             |                     |
| c. Subscriptions   | \$ 850.00   |             |                     |
|  | \$ 9,820.00 | \$ 9,820.00 |                     |
| <b>TOTAL INCOME</b>  |             |             | <b>\$ 19,041.87</b> |
| <b>EXPENSES:</b>   |             |             |                     |
| 1. ANNUAL MEETING  |             | \$ 0.00     |                     |
| 2. AWARDS  |             |             |                     |
| a. Arkansas Science Fair (723)                                     | \$ 400.00   |             |                     |
| b. Conway Trophy (1001)  | \$ 26.84    |             |                     |
| c. Student Awards  | \$ 900.00   |             |                     |
| d. Walt Godwin (1002)  | \$ 81.09    |             |                     |
|  | \$ 1,407.93 | \$ 1,407.93 |                     |
| 3. MISCELLANEOUS   |             |             |                     |
| a. Checking account service charge                                 | \$ 16.00    |             |                     |
| b. Checking account adjustment                                     | \$ 32.20    |             |                     |
|  | \$ 48.20    | \$ 48.20    |                     |
| 4. NEWSLETTER  |             | \$ 0.00     |                     |
| 5. OFFICE EXPENSES   |             |             |                     |
| Treasurer - Joyce Hardin (1007)                                    |             | \$ 32.20    |                     |
| 6. JOURNAL   |             |             |                     |
| a. Stan Trauth - Editorial Consultation and Travel Volume 55 (717) | \$ 200.00   |             |                     |
| b. Pinpoint Color Volume 55 (711)                                  | \$16,677.22 |             |                     |
| c. Joy Trauth - Editorial Consultant Volume 56 (1004)              | \$ 600.00   |             |                     |
| d. ATU Physical Science Volume 55 (1006)                           | \$ 21.00    |             |                     |
|  | \$17,498.22 | \$17,498.22 |                     |
| <b>TOTAL EXPENSES</b>  |             |             | <b>\$18,986.55</b>  |

AR. She also indicated that the Accounting committee now meets before the AAS business meetings to go over the books. Details on the income and expenses for the year were presented in addition to journal cost issues. There was a \$200 donation to student research from UALR left over from the 2001 AAS meeting that is reflected in the budget.

6. *Journal* Editor-in-Chief: Stan Trauth introduces Chris McAllister as the new journal managing editor to replace the resigning David Saugey as voted on by the Executive Committee. He reports that Vol. 56 of the journal is 257 pages and that the current \$40/page

charges to publish need to be increased to \$50/page. A request for the Academy to continue to support the *Journal* Editor-in-Chief with an allotment of \$200 to cover incurred costs will be voted on at the second business meeting. Extra copies of the journal will be available at the annual meeting at a cost of \$30/issue. Extra copies after the meeting and back issues will continue to be available for \$50/issue.

7. *Journal* Managing Editor: David Saugey welcomes Chris McAllister as he passes the torch. David indicated that the current journal enlisted 70 peer reviewers. He also indicated that one of the national agencies to whom we share our journal with, congratulated the Academy on the quality (both scholarly and aesthetic) of our journal compared to other State Science Academy journals they collected. A request for \$500 to cover incurred costs associated with being managing editor was made and will be voted on at the second business meeting. David also wanted to alert membership to the changes in the reprint order forms associated with the journal. Chris McAllister emphasized the need for members who wish to publish in the journal to "get their papers right!" *Journal* guidelines must be followed. If they are not, you will get your paper returned, no questions asked.

8. Newsletter Editor: Jeff Robertson mentioned that now he wears two hats (Newsletter editor and Secretary) there is an opportunity for an enthusiastic someone that desires to participate more fully in Academy business to become the newsletter editor. Jeff will continue happily to do both until such an individual makes themselves known.

9. Arkansas Science Fair Association: Joyce Hardin presented the report from Michael Rapp who requested that the Academy continue to allocate approximately \$400 dollars to support the Arkansas Science Fair Association.

10. Junior Academy of Science: Joyce Hardin indicated that the current directors had resigned and that the Junior Academy was in need of new directorship. A request to continue to support the Junior Science and Humanities Symposium through an allotment of \$200-400 was made to be voted on at the second business meeting.

11. Intel Talent Search: Joyce Hardin presented the report. The talent search has requested \$90 for three plaques to given as awards, be supported by the Academy by vote at the second business meeting.

12. Committee Reports:

- a. Biota Committee: an announcement that the computerization of the Biota list is now complete was made.
- b. Nominations Committee: Mostafa Hemmati, Scott Kirkconnell and Robert Engelken suggested Vice-

## Arkansas Academy of Science

Presidential nominees for inclusion in formal nominations at the second business meeting.

- c. Science Education Committee: Mostafa Hemmati and Collis Geren indicated they would host a meeting of the committee and interested parties at 4pm after the sessions.
13. Old Business: The establishment of an AAS Young Investigator Award was tabled.
14. New Business: The Academy had asked Renn Tumilson to work on a design for a new logo for the AAS that better reflected the nature of the Academy as an Arkansas Science entity. The draft design was previewed and accepted by the executive committee and will be presented at the second business meeting for approval. Invitations are now well in the future (2006) for hosting annual meetings of the AAS as the Academy will meet at ASU-Jonesboro in 2004 and at Hendrix in 2005. Richard Speairs announced an OMBS meeting. David Saugey encouraged participation in the annual ONF Bat Blitz for faculty and students.

Jeff Robertson, AAS Secretary

*SECOND BUSINESS MEETING  
University of Arkansas-Fayetteville BELL Center  
APRIL 5, 2003*

1. Call to Order: Walt Godwin, President of the AAS, called the meeting to order at 11:40 am.
2. Historian: Henry Robison reported that this is the 87th annual meeting of the Arkansas Academy of Science, the 13th such meeting held at Fayetteville and that it had been 12 years since the meeting had last been on the University of Arkansas-Fayetteville campus. Previous meetings included 1937, '40, '48, '51, '54, '61, '65, '69, '72, '78, '84, and 1991.
3. Secretary: The minutes from 2002 business meetings at the UALR campus were approved. Jeff Robertson reported on the current membership list that included approximately 150 members and 50 student members to the Academy. A request for \$200 was made to offset mailing charges incurred for the AAS mailings, the Newsletter, and Journals that were not picked up at the annual meeting was approved.
4. Treasurer: Bob Wiley, chair of the Accounting Committee, and Eric Sundell praised Joyce Hardin for the truth and accuracy of the Arkansas Academy of Science books. The financial report was unanimously accepted.
5. *Journal* Editor-in-Chief: Stan Trauth gave praise and thanks to outgoing journal managing editor David Saugey. Chris McAllister begins a 5-year appointment as the new journal managing editor. A motion to increase page charges from \$40/page to \$50/page was approved after an amendment to include a clause for hardship cases.
6. *Journal* Managing Editor: David Saugey indicated that one of the national agencies to whom we share our journal with, congratulated the Academy on the scholarly and aesthetic quality of our journal compared to other State Science Academy journals they collected. This is helped in part to the "wide spectrum" of peer reviewers in our acceptance process. A request for \$500 to cover incurred costs associated with managing editor duties was approved.
7. Newsletter Editor: Jeff Robertson noted that there is an opportunity for a newsletter editor. Jeff will continue happily to do both the newsletter and secretary duties until someone desires to do the newsletter.
8. Arkansas Science Fair Association: Joyce Hardin presented the report from Michael Rapp and approval of \$400 dollars to support the Arkansas Science Fair Association passed.
9. Junior Academy of Science: The Junior Academy is in need of new directorship. A request to continue to support the Junior Science and Humanities Symposium through an allotment of up to \$400 was approved.
10. Intel Talent Search: A request of \$90 from Jim Murray for three plaques to given as awards was approved.
11. Committee Reports:
  - a. Biota Committee: the computerization of the Biota lists are now complete.
  - b. Nominations Committee: Stan Trauth was elected by vote as Vice-President, joining Wayne Gray (President-Elect) and Betty Crump (current Vice President).
  - c. Science Education Committee: Mostafa Hemmati and Collis Geren shared information about the science education discussions.
12. Local Arrangements Committee: Collis Geren announced the various scholarly awards presented to students for their research presented at the meeting symposia.
13. New Business: The new Arkansas Academy of Science LOGO designed by Renn Tumilson was accepted by



## Secretary's Report

the membership. Boa-An Li from ASU-Jonesboro announced the dates of the 2004 meeting as April 2-3, 2004. Richard Spears suggested that more effort should be made to facilitate participation of the state's 2-year institutions in the Arkansas Academy of Science. David Saugey encouraged participation in the annual ONF Bat Blitz for faculty and students.

14. Closing: New president Wayne Gray accepted the gavel from former president Walt Godwin as Walt accepted a plaque from Wayne for his dedicated service. Wayne announced that everyone should develop plans to promote the activities of the Academy through advertising in every way shape and form. Meeting adjourned at 12:40 pm.

Jeff Robertson, AAS Secretary

## APPENDIX A

2003 AAS Award Winners

## GRADUATE STUDENT AWARDS

Engineering:

1st: Paul Millett  
Computer Modeling of the Tornado-Structure Interaction:  
Investigations...  
UAF

2nd: Ty McNutt  
Silicon Carbide Power Device Models  
UAF

3rd: Faisal Magableh  
Effect of Design Parameters on Slow Wave Resonators  
UAF

Life Science:

1st: David Williams  
Molecular Systematics of *Quercus Acerifolia* UAF

2nd: M. L. McCallum  
Can the Illinois Chorus Frog Survive in Arkansas ASU

3rd: T. E. Posey  
Individual-Tree Green Weight Equations for the Loblolly  
Pine UAM

Physical Science:

1st: P. Rangarajan  
Determinatin of Bile Acids in a Mixture by GC-MS  
UALR

2nd: J. Annaratone  
Preliminary IR Study of the Reaction ASU

3rd: A. Meier  
Simulations of the Formation of Asteroids UAF

Poster Presentation:

1st: Emily Clark  
Magnetohydrodynamics Studies UAF

2nd: Jennifer Lewter  
DNA Sequence Analysis UAF

3rd: Eyutayo Fakunle  
Low-Temperature Co-fired Cerami UAF

Honorable Mention: Muhammad Hossain  
Assessment of Environmental Impact from the Wal-Mart  
HS-UAPB

## UNDERGRADUATE STUDENT AWARDS

Engineering:

1st: James Toland  
A Development of a Generic Fatigue Life Prediction Model  
ATU

2nd: Pashupati Adhikari  
A New Parameter for Fatigue Crack Growth Rate Analysis  
ATI

3rd: Bert Buford  
Influence of Biological Factors in the Design of Hip Implants  
ATU

Life Science:

1st: K. A. Davis  
Effects of Nectar on Energy Content of Monarch Butterflies  
UALR

2nd: R. G. Neal  
Calling Site Characterization of the Illinois Chorus Frog  
ASU

3rd: S. M. Starnes  
Response of Individual Plants to Fire in a Relicited Grassland  
Hendrix

Physical Science:

1st: Pashupati Adhikar  
Antiforce Wave Profile for Quasi-Neutral Region ATU

2nd: A. Ellison  
Synthesis of a Trinuclear Ruthenium Complex UAF

Poster Presentation:

1<sup>st</sup>: Tiffany Ricks  
Investigations of Stereoselectivity UAF

2<sup>nd</sup>: Amanda Suttle  
Speciation of Chromate in Chromium ATU

3<sup>rd</sup>: Allan Holloway  
Fabrication and Testing...CCD Spectrography UCA

## APPENDIX B

## RESOLUTIONS

Be it resolved that we, the membership of the Arkansas Academy of Science, offer our sincere appreciation to the University of Arkansas-Fayetteville for hosting the 87th annual meeting of the Arkansas Academy of Science. We thank the Local Arrangements Committee: Chair Collis Geren, John Hehr, Duane Wolf, William Brown and all of the student workers and staff, who collectively contributed to such a successful meeting, particularly Gail Piaha of the Division of Continuing Education, as well as Benita Wolff, Patricia Koski and Shannon Stewart. Appreciation is expressed for the use of these excellent facilities, and the hospitality shown to us by the University of Arkansas personnel. We especially thank our Keynote Speaker, Dr. W. Frederick Limp for the technically informative and timely presentation entitled "A Sense of Where You Are: The Growing Role of Geospatial Technologies in Arkansas." We thank the University of Arkansas for their donations to the Social and Banquet, which were both excellent and thoroughly enjoyed by all. And we thank Provost Bob Smith for his thought provoking and entertaining welcome.

We appreciate the Program Chairs, who contributed to the organization and facility provision for this meeting: Stephen Boss (Geosciences), Dennis Brewer (Computer Science & Computer Engineering), Johnnie Gentry (University Museum/Biological Sciences), Dale Johnson (Chemistry & Biochemistry), Hameed Naseem (Electrical Engineering), Curt Rom (Horticulture), Richard Ulrich (Chemical Engineering), and Kenneth Vickers (Microelectronics-Photonics). The Academy recognizes the important role assumed by Session Chairs and expresses sincere appreciation to: Charles Rosenkrans, Steve Beaupre, Edith Hardcastle, Em Ward, Adnan Al-Shariah, Susan Burkett, Husam Abu-Safe, Richard Ulrich, Curt Rom, Laurent Bellasch, Dennis Brewer, Greg Tom, Robert Bittle, Frank Millett, William Brown, Fred Barlow, Stephen Boss, Eric Sundell and Don Culwell. A special appreciation is owed to these individuals who devoted considerable time and energy to judging the student papers: Dan Davis, Grover Paul Miller, Mostafra Hemmati, Bao-Ann Li,

Tsunemi Yamashita, Russell Nordeen, Bill Durham, Lin Oliver, Frank Hardcastle, Paul Benoit, Collis Geren, Wayne Wahls, and Richard Ulrich.

We gratefully acknowledge the various directors of the science and youth activities which are supported or supervised by the Academy: Mostafa Hemmati, Chair of the Science Education Committee; Mike Rapp, Director of the Arkansas State Science Fair Association; Jim Murray, Director of the Intel Science Talent Search; and Rick Geraci and Mark Eakin, Co-Directors of the Junior Academy of Science. We wish to thank all those who served as directors at the regional science fairs and Junior Academy meetings including: Kathryn Shinn, Beverly Meinzer, Marty Huss, Lynne Hehr, Gary Earleywine, Jim Edson, Brian Monson and Mike Rapp.

The Academy appreciates the Arkansas Environmental Federation for donating to the undergraduate student awards and Sigma Xi for the graduate student awards. We congratulate all who presented papers and posters at this meeting. Student participants are especially recognized since their efforts contribute directly to the future success of the Academy and the improvement and advancement of science in Arkansas.

The continued success of the Academy is due to its strong leadership. We offer sincere thanks to our officers for another excellent year: Walt Godwin (President), Wayne Gray (President-Elect), Betty Crump (Vice-President), John Rickett, who will be with us in spirit for a very long time (Past-President), Jeff Robertson (Secretary), Joyce Hardin (Treasurer), Stan Trauth (*Journal* Editor-in-Chief), David Saugey (*Journal* Managing Editor), Jeff Robertson (Newsletter Editor), and Henry Robison (Historian).

Finally, the membership wishes to posthumously recognize Dr. Harvey E. Barton and Dr. Earl L. Hanebrink for their many years of numerous and valuable contributions and services to their students, to the Academy, and to the science and biology professions.

Respectfully submitted this 5th day of April, 2003.

Resolution Committee  
Betty G. Crump, Chair  
Wayne Gray  
Walt Godwin

## Secretary's Report

## MEMBERS 2003

| FIRST MI   | LAST NAME    | INSTITUTION                             |
|------------|--------------|---|
| Robbin C.  | Anderson     | University of Arkansas-Fayetteville     |
| Scott      | Austin       | University of Central Arkansas          |
| Edmond J.  | Bacon        | University of Arkansas-Monticello       |
| Gwen       | Barber       | Arkansas Tech University                |
| Vernon     | Bates        | Ouachita Mtns. Biological Station       |
| Melinda    | Bodary       | University of Arkansas-Pine Bluff       |
| Wilfred J. | Braithwaite  | University of Arkansas-Little Rock      |
| Tom        | Buchanan     | University of Arkansas-Ft. Smith        |
| Carrie     | Cavanaugh    | Arkansas State University               |
| Michelle   | Caviness     | University of Arkansas-Fayetteville     |
| David      | Chittenden   | Arkansas State University               |
| Alan       | Christian    | Arkansas State University               |
| Shawn      | Cochran      | U.S.D.A. Forest Service                 |
| Calvin     | Cotton       | Geographics Silk Screening Co.          |
| Betty      | Crump        | U.S.D.A.                                |
| Donald     | Culwell      | University of Central Arkansas          |
| James      | Daly         | University of Arkansas/Medical Sciences |
| Leo Carson | Davis        | Southern Arkansas University            |
| Robert H.  | Dilday       | University of Arkansas-Fayetteville     |
| Paul       | Doruska      | University of Arkansas-Monticello       |
| Mark       | Draganjac    | Arkansas State University               |
| Brad       | Edgar        | Arkansas State University               |
| Jim        | Edson        | University of Arkansas-Monticello       |
| Rudolph    | Eichenberger | Southern Arkansas University            |
| Daniel R.  | England      | Southern Arkansas University            |
| James      | Engman       | Henderson State University              |
| William L. | Evans        | University of Arkansas-Fayetteville     |
| Kim        | Fifer        | University of Arkansas/Medical Sciences |
| James H.   | Fribourgh    | University of Arkansas-Little Rock      |
| Arthur     | Fry          | University of Arkansas-Fayetteville     |
| Linda      | Gatti-Clark  | Hendrix College                         |
| Johnnie    | Gentry       | University of Arkansas-Fayetteville     |
| Collis     | Geren        | University of Arkansas-Fayetteville     |
| David      | Pace         | Lyon College                            |
| Anthony    | Grafton      | Lyon College                            |
| John       | Giese        | Ark. Dept. of Env. Qual. (ret)          |
| Walter     | Godwin       | University of Arkansas-Monticello       |
| Dave       | Gosse        | The Nature Conservancy                  |
| Stephen    | Grace        | University of Arkansas-Little Rock      |
| G.O.       | Graening     | Ozark Highlands Office                  |
| John       | Graham       | Arkansas Tech University                |
| Wayne      | Gray         | University of Arkansas/Medical Sciences |
| Brian      | Greuel       | John Brown University                   |
| Joe M.     | Guenter      | University of Arkansas-Monticello       |
| Franklin   | Hardcastle   | Arkansas Tech University                |
| Joyce      | Hardin       | Hendrix College                         |
| Laurence   | Hardy        | LSU-Shreveport                          |
| George     | Harp         | Arkansas State University               |
| Phoebe     | Harp         | Arkansas State University               |
| Gary       | Heidt        | University of Arkansas-Little Rock      |
| Ronnie     | Helms        | University of Arkansas-Fayetteville     |
| Mostafa    | Hemmati      | Arkansas Tech University                |
| William    | Holimon      | Arkansas Natural Heritage Commission    |
| Philip     | Hyatt        | Kisatchie National Forest               |
| Debra      | Ingram       | Arkansas State University               |
| Jefremy    | Jackson      | FTN Associates                          |
| Carol      | Jacobs       |   |
| Douglas    | James        | University of Arkansas-Fayetteville     |
| David      | Jamieson     | ASU-Beebe/Newport                       |
| Arthur     | Johnson      | Hendrix College                         |
| George     | Johnson      | Arkansas Tech University                |
| Ronald     | Johnson      | Arkansas State University               |
| Cindy      | Kane         | University of Arkansas/Medical Sciences |
| Roger      | Koeppe       | University of Arkansas-Fayetteville     |
| Janet      | Lanza        | University of Arkansas-Little Rock      |
| Bao-An     | Li           | Arkansas State University               |
| Michelle   | Mary         | Arkansas State University               |
| Donald     | Mattison     | March of Dimes National Office          |
| Donald     | Mattison     | March of Dimes National Office          |
| Chris      | McAllister   | Texas A&M-Textarkana                    |
| Malcom     | McCallum     | Arkansas State University               |
| Roland     | McDaniel     | FTN Associates                          |
| Dennis     | McMasters    | Henderson State University              |
| Grover     | Miller       | UAMS                                    |
| Herbert    | Monoson      | Ark. Science & Technology Authority     |
| Clementine | Moore        |   |

| FIRST MI  | LAST NAME  | INSTITUTION                             |
|-----------|------------|---|
| Matthew   | Moran      | Hendrix College                         |
| Alex      | Nisbet     | Ouachita Baptist University             |
| Russell   | Nordeen    | University of Arkansas-Monticello       |
| Gaylord   | Northrop   | University of Arkansas-Little Rock      |
| Tom       | Palko      | Arkansas Tech University                |
| James     | Peck       | University of Arkansas-Little Rock      |
| Floyd     | Perk       | U.S. Public Health Service              |
| Janet     | Rader      | Southern Arkansas University            |
| Michael   | Rapp       | University of Central Arkansas          |
| Scott     | Reeve      | Arkansas State University               |
| Dennis    | Richardson | Quinnipiac College                      |
| Jeff      | Robertson  | Arkansas Tech University                |
| Henry     | Robison    | Southern Arkansas University            |
| Dennis    | Ruez       | University of Texas-Austin              |
| Blake     | Sasse      | Arkansas Game and Fish Com.             |
| David     | Saughey    | U.S. Forest Service                     |
| Lothar    | Schafer    | University of Arkansas-Fayetteville     |
| Stephen   | Sewell     | University of Mississippi               |
| Paul      | Sherman    | Arkansas State University               |
| Richard   | Smith      | University of Arkansas/Medical Sciences |
| Betty     | Spears     | Ouachita Mtns. Biological Station       |
| Richard   | Spears     | Ouachita Mtns. Biological Station       |
| Lori      | Spencer    | Mt. Magazine State Park                 |
| Frederick | Spiegel    | University of Arkansas-Fayetteville     |
| Richard   | Standage   | USDA Forest Service                     |
| Eric      | Sundell    | University of Arkansas-Monticello       |
| George    | Templeton  | University of Arkansas-Fayetteville     |
| Stanley   | Trauth     | Arkansas State University               |
| Joy       | Trauth     | Arkansas State University               |
| Gary      | Tucker     | FTN Associates                          |
| Renn      | Tumison    | Henderson State University              |
| Staria    | Vanderpool | Arkansas State University               |
| Brian     | Wagner     | Arkansas Game and Fish Commission       |
| Wayne     | Wahls      | UAMS                                    |
| Gerald    | Walsh      |   |
| Rocky     | Ward       | Texas Parks and Wildlife Dept.          |
| Hilary    | Warley     | Arkansas State University               |
| Michael   | Warriner   | Arkansas Natural Heritage Commission    |
| Benjamin  | Wheeler    | Arkansas State University               |
| James     | Wickliff   | University of Arkansas-Fayetteville     |
| Robert    | Wiley      | University of Arkansas-Monticello       |
| Jim       | Winter     | University of Arkansas-Little Rock      |
| Duane     | Wolf       | University of Arkansas-Fayetteville     |
| Tsunemi   | Yamashita  | Arkansas Tech University                |
| Bin       | Zhang      | Arkansas State University               |

## SPONSORING MEMBERS

|     |       |                           |
|-----|-------|---------------------------|
| Bin | Zhang | Arkansas State University |
|-----|-------|---------------------------|

## LIFE MEMBERS

|            |             |   |
|------------|-------------|---|
| Robbin C.  | Anderson    | University of Arkansas-Fayetteville     |
| Edmond J.  | Bacon       | University of Arkansas-Monticello       |
| Vernon     | Bates       | Ouachita Mtns. Biological Station       |
| Wilfred J. | Braithwaite | University of Arkansas-Little Rock      |
| David      | Chittenden  | Arkansas State University               |
| Calvin     | Cotton      | Geographics Silk Screening Co.          |
| Betty      | Crump       | U.S.D.A.                                |
| James      | Daly        | University of Arkansas/Medical Sciences |
| Leo Carson | Davis       | Southern Arkansas University            |
| Robert H.  | Dilday      | University of Arkansas-Fayetteville     |
| Mark       | Draganjac   | Arkansas State University               |
| Jim        | Edson       | University of Arkansas-Monticello       |
| Daniel R.  | England     | Southern Arkansas University            |
| William L. | Evans       | University of Arkansas-Fayetteville     |
| Kim        | Fifer       | University of Arkansas/Medical Sciences |
| James H.   | Fribourgh   | University of Arkansas-Little Rock      |
| Arthur     | Fry         | University of Arkansas-Fayetteville     |
| Linda      | Gatti-Clark | Hendrix College                         |
| Collis     | Geren       | University of Arkansas-Fayetteville     |
| John       | Giese       | Ark. Dept. of Env. Qual. (ret)          |
| Walter     | Godwin      | University of Arkansas-Monticello       |
| Joe M.     | Guenter     | University of Arkansas-Monticello       |
| Joyce      | Hardin      | Hendrix College                         |
| George     | Harp        | Arkansas State University               |
| Phoebe     | Harp        | Arkansas State University               |
| Ronnie     | Heidt       | University of Arkansas-Little Rock      |
|            | Helms       | University of Arkansas-Fayetteville     |

## Arkansas Academy of Science

| FIRST MI   | LAST NAME | INSTITUTION                             |
|------------|-----------|---|
| Mostafa    | Hemmati   | Arkansas Tech University                |
| Carol      | Jacobs    |   |
| Douglas    | James     | University of Arkansas-Fayetteville     |
| Arthur     | Johnson   | Hendrix College                         |
| Cindy      | Kane      | University of Arkansas/Medical Sciences |
| Roger      | Koeppe    | University of Arkansas-Fayetteville     |
| Donald     | Mattison  | March of Dimes National Office          |
| Roland     | McDaniel  | FTN Associates                          |
| Herbert    | Monoson   | Ark. Science & Technology Authority     |
| Clementine | Moore     |   |
| Gaylord    | Northrop  | University of Arkansas-Little Rock      |
| Tom        | Palko     | Arkansas Tech University                |
| James      | Peck      | University of Arkansas-Little Rock      |
| Michael    | Rapp      | University of Central Arkansas          |
| Jeff       | Robertson | Arkansas Tech University                |
| Henry      | Robison   | Southern Arkansas University            |
| David      | Saughey   | U.S. Forest Service                     |
| Stephen    | Sewell    | University of Mississippi               |
| Betty      | Spears    | Ouachita Mtns. Biological Station       |
| Richard    | Spears    | Ouachita Mtns. Biological Station       |
| George     | Templeton | University of Arkansas-Fayetteville     |
| Stanley    | Trauth    | Arkansas State University               |
| Gary       | Tucker    | FTN Associates                          |
| Renn       | Tumlison  | Henderson State University              |
| James      | Wickliff  | University of Arkansas-Fayetteville     |
| Robert     | Wiley     | University of Arkansas-Monticello       |
| Stephen A. | Walker    |   |

## STUDENT MEMBERS

|          |            |       |
|----------|------------|-------|
| Jan      | Annaratone | ASU   |
| Kirk     | Babb       | UALR  |
| Ben      | Ball       | ASU   |
| Marwan   | Barghouti  | UARK  |
| Amanda   | Bell       | UARK  |
| Ty       | Blacklock  | UALR  |
| Michelle | Christy    | UARK  |
| Emily    | Clark      | UARK  |
| Amanda   | Crnkovic   | OMBS  |
| Sami     | Eyuboglu   | UALR  |
| Tommy    | Finley     | UALR  |
| Kristen  | Greer      | UARK  |
| Darin    | Gwartney   | JBU   |
| Lori     | Hardcastle | ATU   |
| Edith    | Hardcastle | UARK  |
| Allan    | Holloway   | UCA   |
| Eran     | Jones      | UARK  |
| Sandra   | Kirchhoff  | UALR  |
| Kate     | Ledbetter  | ATU   |
| Thalia   | Madewell   | UARK  |
| Sharmila | Magan Lal  | UARK  |
| Travis   | Marsisco   | UARK  |
| Shannan  | Nilz       | UALR  |
| Sarah    | Nunn       | UARK  |
| Eyitayo  | Ofakunle   | UARK  |
| Travis   | Posey      | UAM   |
| Zach     | Ramsey     | TAMUT |
| William  | Reed       | ASU   |
| Tiffany  | Ricks      | UARK  |
| Anindo   | Roy        | UALR  |
| Shawn    | Singer     | TAMUT |
| Michael  | Slay       | UARK  |
| Kristen  | Sterba     | UAMS  |
| Amanda   | Suttles    | ATU   |
| Stacie   | Thomas     | UALR  |
| Kimberly | Trobaugh   | UCA   |
| David    | Williams   | UARK  |
| Jeff     | Wilson     | UARK  |