

1995

79th Annual Meeting, 1995. Secretary's Report and Financial Statement

Academy Editors

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PROCEEDINGS

ARKANSAS ACADEMY OF SCIENCE

ANNUAL MEETING 7-8 APRIL 1995
UNIVERSITY OF ARKANSAS AT PINE BLUFF

James Peck
President

Peggy R. Dorris
President-Elect

John D. Rickett
Secretary

Robert Wiley
Treasurer

NAAS Delegate

Henry Robison
Historian

Secretary's Report

MINUTES OF THE SEVENTY-NINTH MEETING

FIRST BUSINESS MEETING 7 APRIL 1995

Number present: 20

President James Peck opened the meeting at 1115.

- Peck recognized Local Arrangements Chair Clifton Orr to announce specifics regarding the meeting. Orr introduced Dr. William Willingham, Dean of Science & Technology (UAPB) to extend a formal welcome. Willingham invited the Academy, recognized the organization on its work in the state and complimented the number of students involved in the Academy's activities.
- Peck recognized Secretary Rickett who presented the minutes from the two 1994 Business Meetings and asked for additions and corrections. Rickett moved (2nd: Robison) for approval of the minutes.
- Peck recognized Historian Robison who stated that this is the 79th Annual Meeting of the Academy and the first one at UAPB.
- Peck recognized Treasurer Wiley who presented the Treasurer's report and briefly reviewed operating accounts, investments, income, and expenses. Wiley moved (2nd: Peck) the Treasurer's report be accepted, pending examination by the Auditing Committee. Wiley also moved (2nd: Peck) approval of the dues restructuring plan that was approved by the Executive Committee to increase associate membership to \$15, regular to \$30, sustaining to \$35, and sponsoring to \$45.

FUNDS	
Beginning Balance - 1 January 1994	22,874.24
Total Income (Page 2)	15,445.63

Total Expenses (Page 3)	-14,413.98	
Balance for the Year	\$1,031.65	1,031.65
CLOSING BALANCE - 31 DECEMBER 1994		\$23,905.89

DISTRIBUTION OF ACCOUNTS

Interest Bearing Checking Account (Union Bank and Trust Co., Monticello, AR)		4,164.94
Certificates of Deposit		
Dwight Moore Endowment (Heritage Bank - A Federal Savings Bank - Monticello - No. 506698.1 - 3.85% Int.)	2,410.77	
Life Membership Endowment (Heritage Bank - A Federal Savings Bank - Monticello - No. 506680.1 - 3.85% Int.)	9,704.55	
AAS Endowment (Heritage Bank - A Federal Savings Bank - Monticello - No. 509942.0 - 4.35% Int.)	6,125.63	
AAS General 1 (Heritage Bank - A Federal Savings Bank - Monticello - No. 509959.0 - 4.35% Int.)	1,500.00	
TOTAL		\$23,905.89

Respectfully Submitted

Robert W. Wiley, AAS Treasurer

FINANCIAL STATEMENT, ARKANSAS ACADEMY OF SCIENCE

INCOME: 1 January 1994 to 31 December 1994

1. INDIVIDUAL MEMBERSHIPS		
a. Regular	2,505.00	
b. Sustaining	400.00	
c. Sponsoring	180.00	
d. Life	425.00	
e. Associate	330.00	
	<u>3,840.00</u>	3,840.00
2. INSTITUTIONAL MEMBERSHIPS		1,800.00
3. PROCEEDINGS, LIBRARY SUBSCRIPTIONS		900.00
4. PROCEEDINGS, MISC. SALES (UAF)		2,923.10
5. PROCEEDINGS, PAGE CHARGES		3,887.50

Secretary's Report

6. ANNUAL MEETING		1,132.02	
7. INTEREST			
a. Interest Bearing Checking Account	99.63		
b. Dwight Moore Endowment	78.34		
c. Life Membership Endowment	401.53		
d. AAS Endowment	133.51		
	<u>713.01</u>	713.01	
9. ENDOWMENT DONATIONS			
a. Dwight Moore Endowment	225.00		
b. AAS Endowment	25.00		
	<u>250.00</u>	250.00	
TOTAL INCOME		\$15,445.63	

FINANCIAL STATEMENT, ARKANSAS ACADEMY OF SCIENCE

EXPENSES: 1 January 1994 to 31 December 1994

1. AWARDS			
a. Arkansas Science Fair Association (#630)	400.00		
b. Arkansas Junior Academy of Science (#632)	250.00		
c. Jason Kilgore (#633)	50.00		
d. James J. English (#634)	25.00		
e. Michael J. Boyd (#635)	25.00		
f. Chris Poole (#636)	50.00		
g. Kimberly R. Jones (#637)	25.00		
h. Elsie Williams (#638)	25.00		
i. John Peck, Plaques - Arkansas Science Talent Search (#628)	164.30		
	<u>1,014.30</u>	1,014.30	
2. PROCEEDINGS			
a. Stan Trauth, Editorial Consultation and Travel Vol. 47 (#627)	200.00		
b. Creative Multigraphics (Vol. 47) (#631)	11,048.63		
c. Creative Multigraphics (Vol. 47) (#639)	1,112.63		
d. Joy Trauth, Editorial Consultant Vol. 48 (#640)	500.00		
	<u>12,861.26</u>	12,861.26	
3. OFFICE EXPENSES			
a. Secretary's Office, John Rickett (#641)		426.47	
4. NEWSLETTERS			
a. UAM School of Forest Res. (#626)		39.55	
6. DUES			
a. National Association of Academies of Science (#625)		52.50	
7. SERVICE CHARGES (Union Bank)		19.90	
TOTAL EXPENSES		\$14,413.98	

5. Peck recognized *Proceedings* Editor Trauth who presented Volume 48 of the *Proceedings*, saying production of was fairly smooth and asked individuals to carry extra copies back to their institution or agency, thus saving the Academy some postage expense. Trauth moved (2nd: Harp) the appropriation of \$500 for editorial assistance and \$200 for travel. Trauth also announced the intended sale of extra copies to non-members for \$15 at this meeting. He reminded

authors to give manuscripts intended for publication to section chairs and announced that the ExCom approved increasing page charges to \$40.

6. Peck recognized *Newsletter* Editor Saugey who reported that he had learned a lot preparing the newsletters during the past year. He requested information suitable to be published in the *Newsletter* and moved (2nd: Robison) the appropriation of \$1500 to support production of the *Newsletter* in the event we have to sue commercial facilities.
7. Peck announced, in the absence of Heidt, that the Nominating Committee has submitted Rose McConnell and James Daly as nominees for next year's Vice President. He called for nominations from the floor, but none came.
8. Peck recognized Jim Edson, Chair of the Science Education Committee who reported that his committee and ASTA are being brought into a closer working relationship in the review process of science teacher certification and will try to better keep up with the Systemic Science Initiative.
9. Peck appointed the Auditing Committee: Robert L. Watson, Chair, Tom Palko, and James Peck.
10. Peck announced the Resolutions Committee is being formed.
11. Peck recognized Doug James who reported on activities of the Biota Committee. Leo Paulissen's original 49 lists are now on diskette ready to be proofread and sent to specialists for comment. He requested the submission of new lists.
12. Peck announced the Development Committee will be chaired by Dick Kluender and will generate ideas for obtaining outside support.
13. Peck read a note from John Peck who is requesting \$230 to support the Arkansas Science Talent Search and is asking to be replaced as its director (he has taken a position at Children's Hospital) (see Appendix A for a full report).
14. Peck recognized Palko who stated he will give his report at the Second Business Meeting.
15. Peck read a note from Robert Skinner requesting \$250 to support the Junior Academy and from Mike Rapp requesting \$450 to support the State Science

Arkansas Academy of Science

Fair for the coming year. Motion to approve was made by Peck (2nd: Dorris) (see Appendix B for Rapp's report).

16. Peck announced the ExCom had approved the list of judges.
17. Peck announced the 1996 meeting will be at Westark Community College, but we will not be officially meeting with the Oklahoma Academy of Science, as previously suggested. The meeting will be held the second weekend in April, and arrangements are in progress.
18. Peck recognized Kluender who extended an invitation for the 1997 meeting at University of Arkansas at Monticello. Peck stated the ExCom will most likely accept that invitation.
19. Peck urged members to pick up their and absent colleagues' copies of *Proceedings* -- will save lots of postage.
20. Peck recognized Trauth who proposed developing an annotated bibliography of vertebrate zoology from the first 49 volumes of the *Proceedings* and asked if the Academy would be willing to help defray the cost of publication. It would occupy approximately 20-22 pages in the next issue, and the waived page charges would be valued approximately \$800. Trauth stated a formal motion (2nd: Saugey). Considerable discussion followed regarding the specific format and content of such a document. General consensus was that such an index should include all papers.
21. At 1155, Peck sought a motion to adjourn, which was provided by G. Harp, and the meeting adjourned.

**SECOND BUSINESS MEETING
8 APRIL 1995**

Number present: 42

President Peck called the meeting to order at 1208.

1. Peck recognized Rickett who stated no changes to the minutes of the 1994 Business Meetings had been received. Motion to accept them passed.
2. Peck recognized Wiley who briefly reviewed Treasurer's report again and explained how the bill for printing the *Proceedings* is paid for. Peck read the

Auditing Committee's report:

"The Auditing Committee, after careful examination, found the financial records of the Academy as proposed by Treasurer Robert Wiley to be accurate and in good order." (—Robert Watson, Chair, Tom Palko and James Peck)

The motion to accept the Treasurer's report was approved.

3. Peck recognized Rickett to reread the several motions for financial support:

Trauth: \$500 editorial assistance plus \$200 expenses
Saugey: \$1500 for Newsletter
John Peck: \$230 for Arkansas Science Talent Search
Skinner: \$250 for Junior Academy of Science
Rapp: \$450 for State Science Fair
Total: \$2,930

Motion passed as a group.

4. Peck recognized Rickett to review the dues increase motion -- no other discussion came forward, and the motion was approved.
5. Peck reviewed Trauth's proposal to produce a bibliography and appointed an *ad hoc* committee of Stan Trauth, Walt Godwin, Gary Heidt, George Harp and John Rickett to determine how to proceed.
6. Peck recognized Palko who reported on the Junior Science and Humanities Symposium. JSHS recently held its 29th Annual Meeting, hosting 115 students and 32 teachers; 75 papers were given, and 16 were selected as winners. Meeting activities included research presentations, seminars, tours, and a field trip to Heifer International. Winners received scholarships and trips. Bellynda Booth (LR Central High) was selected as the outstanding presenter and will compete at the National JSHS meeting for an expenses-paid two-week trip to the International Fortnight in London, England. The title of her winning paper was "Effects of Fe, Mn, and Zn 3,5 di-isopropylsalicylate chelates on porcine heart disphorase". Gary Hufford was her teacher and sponsor and received a certificate and \$300 prize.
7. Peck recognized the officers of the Academy, first year members and life members.
8. Peck then conducted the election of Vice President.

Secretary's Report

Rose McConnell and James Daly were nominated by the Nominating Committee. No nominations came from the floor, ballots were distributed, and James Daly was elected Vice President.

9. Peck recognized Mike Matthews, Chair of the Resolutions Committee, to read the resolutions (see Appendix C).
10. Peck announced the 1996 meeting will be at Westark Community College, and Kluender has invited the 1997 meeting to the University of Arkansas at Monticello.
11. Peck recognized Rebecca Lockmann, Awards Committee Chair, who stated that 27 presentations were judged for an award. Winners in the several categories are given in Appendix D.
12. Peck recognized Orr for a report on the success of the meeting. There were 179 registrants and 97 banquet attendees. Ninety-four papers, including 60 student papers, were presented.
13. Peck asked for additional old business, but none came.
14. Peck then asked for any new business, with the same result.
15. Peck asked for final announcements --
 - a. Pick up *Proceedings* and deliver appropriately
 - b. Submit manuscripts to Trauth or Section Chairs
 - c. Trauth announced page charges will be increased to \$40, beginning with volume 49. Johnson asked what the cost per page has been. Wiley responded: \$71-80 per page for last 10 years. Page charges have been at their current level for about that time also. Motion (Trauth; 2nd: Johnson) passed.
16. President Peck's farewell speech extended thanks to the officers and Academy members who have helped make his year as President a success. He then called Peggy Rae Dorris to the front and presented the gavel to her as the new President.
17. President Dorris's inaugural speech consisted of a couple of jokes, quite appropriate to the occasion.
18. President Dorris called for any new business, and hearing none, adjourned the meeting at 1250 hrs.

--- Respectfully submitted,
John Rickett, Secretary

APPENDIX A

ARKANSAS ACADEMY OF SCIENCE

Following are the winners of the 44th Annual Arkansas Science Talent Search 1994-95, held in conjunction with the 54th Annual Westinghouse Science Talent Search.

FIRST PLACE

Ruth Christine Plymale "Insects as Water Quality
4308 Southridge Indicators"
Fort Smith, AR 72916

Greenwood High School
Sponsor: Ms. Debbie Bilyeu

SECOND PLACE

Jonathan Paulk Brasher "A Characterization of Convergent
10608 Meandering Way Crystalline Structural Defects and
Fort Smith, AR 72903 Imputities in Glass"

Arkansas School for Math & Sciences
Sponsor: Dr. Irina Lyublinskays

THIRD PLACE (TIE)

John Derrick Marker "Holographic Interferometry of
100 Whittington Avenue Crystalline Structural Defects and
Hot Springs, AR 71901 Imputities in Glass"

Arkansas School for Math & Sciences
Sponsor: Dr. Irina Lyublinskays

THIRD PLACE (TIE)

Kyle Stuart Cranmer "Communication with Brain Waves"
100 Whittington Avenue
Hot Springs, AR 71901

Arkansas School for Math & Sciences
Sponsor: Ms. Annice Steadman

HONORABLE MENTION

Rani Larissa Croager "The Pythagorean Theorem"
79 Woodlore Circle
Little Rock, AR 72211

Little Rock Central High School
Sponsors: Ms. Page Daniel • Ms. Gracie Mays

HONORABLE MENTION

Douglas William Shields "Pattern of the Giants"
202 Franklin Street
Harrison, AR 72601

Arkansas School for Math & Sciences
Sponsor: Dr. Irina Lyublinskays

----- John Peck

Arkansas Academy of Science

APPENDIX B

ARKANSAS ACADEMY OF SCIENCE

Thank you for the support the Academy has provided for the past 12 years, both in terms of members of the AAS serving as judges and in terms of contributions. This memo serves as a report of the Science Fairs and Junior Academy of Science meetings held in Arkansas during 1995:

Regional Science Fairs:

Region	Location	Date	#	Directors
Central	UAMS	11 Mar	301	Jane Meadows Margie Snider Marian Douglas
Northcentral	Lyon College	24 Mar	150	Veryl Board Kathy Campbell
Northeast	ASU	date(?)	193	Larry Mink David Gillanders Ron Johnson
Northwest	U of A	date(?)	281	John Hehr Lynne Hehr
Southcentral	HSU	date(?)	162	John Hardee Wayne Everett
Southeast	UAM	date(?)	268	Guy Nelson
Southwest	SAU	date(?)	634	Carson Davis
Westcentral	ASMS (H. Springs)		262	Annice Steadman

The State Science Fair will be held April 7 and 8 at UCA, to date, 306 students (283 projects) have been registered, and 77 students have applied to present papers at the Junior Academy of Science meeting. Bob and Raynell Skinner are co-directors of the Junior Academy.

----- Mike Rapp

APPENDIX C

1995 MEETING OF THE
ARKANSAS ACADEMY OF SCIENCE

RESOLUTIONS

BE IT RESOLVED, that we, the members of the Arkansas Academy of Science, offer our sincere thanks to the University of Arkansas at Pine Bluff for hosting the 1995 meeting of the Arkansas Academy of Science. In particular, we thank the local arrangements committee for an outstanding job of organizing the meeting: Clifton Orr (Chairperson), Richard B. Walker, Rebecca

Lochmann, David Lickteig, Komalan Jairaj, Mattie M. Glover, Miriam M. Glass, Michael A. Preston, Lawrence D. Fitz, Floristine Lovett and students from the Minority Access to Research Careers Program, Minority Biomedical Research Support Program and Mentor Advocate Program. Appreciation is expressed for the use of UAPB's facilities and the hospitality shown members of the Academy by UAPB personnel. The banquet was excellent, as was the presentation on "Science Education and Research for the 21st Century" by Dr. Juther S. Williams, Assistant Director for Education & Human Resources of the National Science Foundation.

The Academy recognizes the important role played by the various section chairpersons and expresses appreciation to: Roger Koeppe, II and Richard B. Walker (Chemistry and Chemical Engineering I); Lynita Cooksey (Zoology); Keith Hundson (Physics, Mathematics and Engineering I); Nick Brown (Ecology and Environmental Science); Joseph Igietsme (Biomedical Sciences and Microbiology); Felix Tendeku and W.J. Braithwaite (Physics, Mathematics and Engineering II); Janet Lanza and Richard Meyer (Botany); Rebecca Lochmann and Joseph W. Stoeckel (Fisheries and Aquatic Biology); C. Bhuvaneshwaran (Chemistry and Chemical Engineering II) and Shelton Fitzpatrick (Science Education).

A special thanks is owed the individuals who devoted considerable time and energy to judging student papers: Ali Shaikh, Bill Taylor, Frank Setliff, Susan Cady, Uttam Jagwani, Mansour Mortazavi, Aslam Chowdhury, Mohammad Miah and Mostafa Hemmati (Physical Sciences); Gaston Griggs, Joseph Igietsme, David Lortz, Peggy Rae Dorris, Victoria McDonald, David Jamieson, John Rupe, Yanfei Guo, Jameel Al-Khayi, Rebecca Lockmann, and Ron Johnson (Biological Sciences).

We express gratitude to the various directors of the science and youth activities which are supported by the Academy: Jim Edson (Chair, Science Education Committee); Mike Rapp (President, Arkansas State Science Fair Association); Tom Palko (Director, Junior Science and Humanities Symposium); John Peck (Director, Arkansas/Westinghouse Science Talent Search); and Robert and Raynell Skinner (Co-Directors, Arkansas Junior Academy of Science).

We wish to thank all those individuals who served as directors at Science Fairs and Junior Academy Meetings: Jane Meadows, Margie Snider and Marian Douglas (Central Region); Veryl Board (North Central Region); Larry Mink, David Gillanders and Ron Johnson (Northeast Region); John Hehr, Lynne Hehr (Northwest Region); John Hardee, Wayne Everett (South Central Region); Guy Nelson, Deborah Phillips (Southeast Region); Carson Davis (Southwest Region); Annice Steadman (West Central Region); Michael Rapp, Bob

Skinner and Raynell Skinner (State Meeting, UCA, Conway).

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

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

Resolutions Committee

Michael Matthews, Chairperson

Joyce Hardin

Lawrence M. Mwasi

APPENDIX D

ARKANSAS ACADEMY OF SCIENCE

PAPER PRESENTATION AWARDS, 8 APRIL 1995

Physical Science - undergraduate:

- First: Delaney Kinchen, UAM, "Synthesis of pepstatin analogs for proteinase inhibition"
 Second: Sue Ellen McCloskey, UALR, "An introductory module for students of Monte Carlo modeling"
 Third: Crissy Patterson, UAM, "Preparation of ¹³C-labeled leupeptin"

Physical Science - graduate:

- First: Anthony Jude, UAF, "Effects of beta-branched amino acids at positions 10, 12, and 14 of gramicidin channels"
 Second: Doug Maulden, UALR, "Energy-loss particle identification in 2-D silicon drift detectors"
 Third: Chris Smith, UALR, "Design and construction

of a small arms propellant test unit"

Biological Science - undergraduate:

- First: Jennifer Burks, UALR, "Pollination biology of *Passiflora lutea*"
 Second: Brian Bean, Hendrix, "Mutational analysis of an idiosyncratic domain of the *Neurospora* mitochondrial tyrosyl-TRNA synthetase involved in group I intron splicing"
 Third: David Eller, HSU, "A study involving the detour problem in toads (*Bufo woodhousei*)"

Biological Science - graduate:

- First: Austin Richards, ASU, (he gave two papers, and it wasn't specified which won the award)
 Second: Gina Trebilcock: UAMS, "Immune dysregulation in aging: role of NFkB"
 Third: William Posey, II, ASU, "Selected community characteristics of freshwater mussels (Unionacea) in the St. Francis River, Arkansas"

The following students received honorable mention:

- Physical Science: Amber Climer, UALR; Steven Young, ATU; Arif Raza, ASU; Joshua Loeske, UAM; Tim Bullard, UALR
 Life Science: Ronald Rambo, ATU; Billy Vann, Caddo Hills High School

----- Rebecca Lochmann, Chair
 Judges Panel

MEMBERS 1995

LAST NAME	FIRST MI	INSTITUTION
Al-Khayri	Jameel M.	University of Arkansas/Fayetteville
Bacon	Robert	University of Arkansas at Fayetteville
Baker	Max L.	University of Arkansas/Medical Sciences
Ball	Kenneth M.	El Dorado Public Schools
Baltosser	William H.	University of Arkansas at Little Rock
Barber	Gwen	Arkansas Tech University
Battles	Les	Arkansas State University
Beadles	John Kenneth	Arkansas State University -- retired
Bennett	J. Edward	Arkansas State University
Bhuvanewaran	C.	University of Arkansas/Medical Sciences
Bragg	Jimmy D.	Henderson State University
Bragg	Ann T.	Garland County Community College
Bramlett	Morris	University of Arkansas at Monticello
Breen	David	Mississippi County Community College
Brown	Art	University of Arkansas
Brown	William D.	University of Arkansas at Fayetteville
Brown	Nick	University of Arkansas at Monticello
Buchanan	Roger A.	Arkansas State University
Buchanan	Thomas	Westark Community College
Burnside	Gaylen	University of Arkansas at Little Rock
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 G.	U.S. Forest Service
Collins	Joseph T.	University of Kansas
Cooksey	Lynita	Arkansas State University
Cordova	Robert M.	Cordco Consulting
Crisp, Jr.	Robert M.	University of Arkansas at Fayetteville
Crump	Betty	U.S.D.A., Forest Service
Culwell	Donald	University of Central Arkansas
Dalske	Fred	University of Central Arkansas
Daniels	James T.	Southern Arkansas University/Tech Br.
Davis	Jerry W.	USDA, Forest Service
Desrochers	Patrick	Univ. of Central Arkansas
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	University of Arkansas at Pine Bluff
Fitzpatrick	Sheldon	University of Arkansas at Pine Bluff
Floyd	E. P. (Perk)	U.S. Public Health Service
Forest Service	U.S.	
Foti	Thomas L.	Natural Heritage Commission
Freeman	Donald W.	USDA-University of Arkansas at Pine Bluff
Freiley	Kenneth	University of Central Arkansas
Gagen	Charlie	Arkansas Tech University
Gentry	Joe P.	Arkansas Science & Technology Authority
Getz	Elizabeth M.	University of Central Arkansas
Gildseth	Wayne	Southern Arkansas University
Gilmore	David F.	Arkansas State University
Goforth	R. R.	University of Arkansas at Fayetteville
Gray	Wayne L.	University of Arkansas/Medical Sciences
Green	Reid	U.S. Geological Survey
Griggs	Gaston	John Brown University
Guo	Yanfei	University of Arkansas at Monticello
Hanebrink	Earl L.	Arkansas State University -- retired
Harris	John L.	Arkansas Highway & Transportation Dept.
Harvey	Michael J.	Tennessee Tech University
Hawk	Roger M.	University of Arkansas at Little Rock
Hemmati	Mostafa	Arkansas Tech University
Henson	Stanley	Arkansas Tech University
Herbert	Kristine	Westark Community College
Hilburn	Larry R.	Black River Technical College

LAST NAME	FIRST MI	INSTITUTION
Hinck	Larry	Arkansas State University
Hirschi	Dean	University of Central Arkansas
Hite	Maxine R.	
Hodges	Howard	University of Arkansas at Little Rock
Holt	Anthony	Arkansas State University
Hood	William G.	University of Arkansas at Little Rock
Huang	Feng Hou	University of Arkansas at Fayetteville
Huey	Jim	University of Arkansas at Monticello
Huffman	Jannie	Arkansas State University
Huggins	Julie A.	East Arkansas Community College
Huss	Martin	Arkansas State University
Hyatt	Philip E.	USDA, Forest Service
Igietseme	Joseph U.	University of Arkansas/Medical Sciences
Ison	Celia	University of Nebraska
Jalaluddin	M. D.	University of Arkansas at Pine Bluff
Jamieson	David	Ark. St. Univ.-Beebe/Newport
Jansma	Harriet	University of Arkansas at Fayetteville
Jeffries	Douglas L.	University of the Ozarks
Jenness	Jeff	Arkansas State University
Jimerson	David	Arkansas State University
Johnson	Ronald	Arkansas State University
Johnson	James E.	University of Arkansas at Fayetteville
Johnson	Michael I.	Nettleton High School
Johnson	Hugh	Southern Arkansas University
Johnson	George P.	Arkansas Tech University
Jolivet	Freddie B.	Southern Jr. High School
Justice	Jay	Ark. Dept. Pollution Control & Ecology
Kane	Cynthia J.M.	Univ. of Arkansas for Medical Sciences
Kaplan	Arnold	
Karlin	Alvan A.	University of Arkansas at Little Rock
Kehler	Phillip L.	University of Arkansas at Little Rock
Kennedy	Bud	Arkansas State University
Khan	Shaheen	University of Arkansas at Pine Bluff
Kleve	Maurice G.	University of Arkansas at Little Rock
Kluender	Richard	University of Arkansas at Monticello
Knight	Frank M.	University of the Ozarks
Knighten	Pat	Arkansas Game & Fish Commission
Koeppe	Roger E., III	University of Arkansas at Fayetteville
Kopper	Randall A.	Hendrix College
Kral	Timothy	University of Arkansas at Fayetteville
Krause	Paul	University of Central Arkansas
Lanza	Janet	University of Arkansas at Little Rock
Lavers	Norman	Arkansas State University
Lejeune	J. K.	Red River Technical College
Lee	Linda A.	Pocahontas Middle School
Lewis	Carolyn	Arkansas Tech University
Lindquist	David	University of Arkansas at Little Rock
Linnstaedter	Jerry L.	Arkansas State University
Lockhart	Brian	University of Arkansas at Monticello
Lockley	Judy	Marked Tree Public Schools
Lortz	David	University of Arkansas at Monticello
Lynch	Thomas J.	University of Arkansas at Little Rock
Mackey	James	Harding University
Malasri	Siripong	Christian Brothers University
Manion	Jerry	University of Central Arkansas
Matthews	H. Michael	Henderson State University
McAllister	Chris T.	Veterans Affairs Medical Center
McAllister	Russell B.	Ark. Dept. Pollution Control & Ecology
McCarty	Clark W.	Ouachita Baptist University (retired)
McDaniel	V. Rick	Arkansas State University
McLemore	John A.	USDA, Forest Service
McMasters	Dennis W.	Henderson State University
Meeks	David	Westark Community College
Mehta	Rahul	University of Central Arkansas
Meyer	Richard	University of Arkansas at Fayetteville
Mink	Lawrence A.	Arkansas State University
Mitchell	Richard S.	Arkansas State University
Mittelstaedt	Roberta A.	National Center for Tox. Research
Mittelstaedt	James S.	Pines Technical College
Moore	Phillip	Arkansas Highway & Transportation Dept.
Moore	Jewel	University of Central Arkansas
Morgans	Leland F.	University of Arkansas at Little Rock
Moss	Linda	
Mwasi	Lawrence M.	University of Arkansas at Pine Bluff
Nagappa	H. Y.	University of Arkansas at Pine Bluff
Nave	Paul M.	Arkansas State University
Neal	Joseph C.	U. S. Forest Service
Nelson	Thomas	Arkansas Tech University

LAST NAME	FIRST MI	INSTITUTION
Nicholson	William F.	University of Arkansas at Monticello
Nordeen	Russell	University of Arkansas at Monticello
O'Brien	Timothy J.	University of Arkansas/Medical Sciences
Oosterhuis	Derrick M.	University of Arkansas at Fayetteville
Owens	Don R.	University of Arkansas/Little Rock
Palmer	Bryan D.	Henderson State University
Parsons	Barbara	University of Arkansas at Little Rock
Patterson	Crissy	
Paulissen	Leo J.	University of Arkansas at Fayetteville
Paulissen	Mark A.	McNeese State University
Peck	John D.	University of Central Arkansas
Pendergrass	Paula B.	Arkansas Tech University
Pennington	Carlos H.	USAE Waterways Experiment Station
Piper	Ed	University of Arkansas
Plummer	Michael V.	Harding University
Posey	William R., II	Arkansas State University
Posey	Alan F.	University of Arkansas at Pine Bluff
Price	Mazo	University of Arkansas at Pine Bluff
Prince	Denver L.	University of Central Arkansas
Quartucci	Gregory M.	Burns & McDonnell
Rasmussen	James A.	Southern Arkansas University
Reach	Darryl K.	University of Arkansas at Little Rock
Reeve	Scott W.	Arkansas State University
Richards	Edward L.	Arkansas State University
Rodgers	Michael R.	Ark. Dept. Pollution Control & Ecology
Roe	Amy L.	Nat. Center for Toxicological Research
Rosen	Joe	University of Central Arkansas
Rowe	Marsha	Stamps High School
Runge	Steven W.	University of Central Arkansas
Rupe	John	University of Arkansas at Fayetteville
Russell, Jr.	William A.	University of Arkansas/Medical Sciences
Sanders	Terry A.	Taylor High School
Sciefres	Charles J.	University of Arkansas at Fayetteville
Sealander	John A.	University of Arkansas at Fayetteville
Setliff	Frank L.	University of Arkansas at Little Rock
Shade	Elwood B.	University of Arkansas at Monticello
Shaikh	Ali U.	University of Arkansas at Little Rock
Sharp	J. Craig	Univ. of Central Arkansas
Shepherd	William H.	Arkansas Natural Heritage Comm.
Siegel	Samuel	University of Arkansas at Fayetteville
Sifford	Dewey H.	Arkansas State University
Simpson	Kim	Arkansas Children's Hospital
Skinner	Robert	University of Arkansas/Medical Services
Smith	Edwin B.	University of Arkansas at Fayetteville
Smith	Kimberly G.	University of Arkansas at Fayetteville
Smith, Jr.	Roy J.	U. S. D. A./Univ. of Arkansas
Snow	L. Dale	Louisiana Tech University
Snyder	David G.	University of Arkansas at Monticello
Spiegel	Frederick W.	University of Arkansas at Fayetteville
Standage	Richard W.	U. S. Forest Service
Steward	T. W.	Union University
Stoeckel	Joseph N.	Arkansas Tech University
Sundell	Eric	University of Arkansas at Monticello
Sutton	Keith	Hendrix College
Swindell	Robert T.	University of Arkansas at Little Rock
Tappe	Phil	University of Arkansas at Monticello
Taylor	William S.	University of Central Arkansas
TeBeest	David O.	University of Arkansas at Fayetteville
Thompson	Lyell	University of Arkansas at Fayetteville
Thurmond	John T.	University of Arkansas at Little Rock
Tomer	D.S.	University of Central Arkansas
Trauth	Stanley E.	Arkansas State University
Trautwein	Norman	Arkansas State University
Tumilson	Renn	Henderson State University
Usrey	Zaron D.	U.S. Geological Survey
Walker	Richard B.	University of Arkansas at Pine Bluff
Walker	Stephen A.	Eastern Kentucky University
Walsh	Gerald	
Wear	James O.	V.A. Medical Center
Webb	Jerry	University of Arkansas at Monticello
Weidemann	G. J.	University of Arkansas at Fayetteville
Wennerstrom	Delores	Pulaski Academy
Wiebers	Todd	Henderson State University
Willhide	J. D.	Arkansas State University
Williams	Philip	Arkansas State University
Willis	Rebecca L.	Southern Arkansas University
Wilson, Jr.	Edmond W.	Harding University
Wold	Donald C.	University of Arkansas at Little Rock

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Wolf	Duane C.	University of Arkansas at Fayetteville
Woolverton	Heather L.	University of Central Arkansas
Wright	Robert D.	University of Central Arkansas
Wyatt	Bill	Arkansas State University
Yang	Chia C.	Arkansas Tech University
Yang	Dominic T.	University of Arkansas at Little Rock
York	J. Lyndal	University of Arkansas/Medical Sciences
Young	David A.	Fayetteville Public Schools
Zimmer	Steven W.	Arkansas Tech University

SUSTAINING MEMBERS

Barton	Harvey E.	Arkansas State University
Benson	Ann Marie	University of Arkansas/Medical Sciences
Board	Veryl	Arkansas College
Bollinger	Julia Reed	Arkansas State University
Cleaveland	Malcolm K.	University of Arkansas at Fayetteville
Cole	David	Harding University
Dale, Jr.	Edward E.	University of Arkansas at Fayetteville
Darsey	Jerry A.	University of Arkansas at Little Rock
Erf	Gisela	University of Arkansas at Fayetteville
Farris	Jerry L.	Arkansas State University
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
Nisbet	Alex R.	Ouachita Baptist University
Orr	Clifton	University of Arkansas at Pine Bluff
Peacock	Lance	The Arkansas Nature Conservancy
Price	Alan D.	Ark. Dept. Pollution Control & Ecology
Sharrah	Paul C.	University of Arkansas at Fayetteville
Sustich	Andrew T.	Arkansas State University
Tendeku	Felix K.	University of Arkansas at Pine Bluff
Timmerman	Lorraine	Van-Cove High School
Timmerman	Rudy	Rich Mountain Community College
Watson	Robert L.	University of Arkansas at Little Rock
Willingham	William M.	University of Arkansas at Pine Bluff

SPONSORING MEMBERS

Bates	Vernon	
Bean	Judith A.	Harmony Grove High School
Bradley	Richard	Univ. of Arkansas at Little Rock
Braithwaite	Wilfred J.	University of Arkansas at Little Rock
Daly	James J.	University of Arkansas/Medical Sciences
Davies	David L.	University of Arkansas/Medical Sciences
England-Whaley	Lawana	Arkansas State University
Griffin	Edmond E.	University of Central Arkansas
Hardin	Joyce M.	Hendrix College

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.

LAST NAME	FIRST MI	INSTITUTION
Moore	Clementine	
Northrop	Gaylord M.	University of Arkansas at Little Rock
Palko	Tom	Arkansas Tech University
Peck	James H.	University of Arkansas at Little Rock
Rapp	Michael W.	University of Central Arkansas
Rickett	John D.	University of Arkansas at Little Rock
Robison	Henry W.	Southern Arkansas University
Saughey	David A.	U. S. Forest Service
Sewell	Stephen A.	University of Mississippi
Spears	Betty M.	Ouachita Mtns. Biological Station
Spears	Richard K.	Ouachita Mtns. Biological Station
Templeton	George E.	University of Arkansas at Fayetteville
Tucker	Gary	FTN Associates
Wickliff	James L.	University of Arkansas at Fayetteville
Wiley	Robert W.	University of Arkansas at Monticello

STUDENT MEMBERS

Akin	Jennifer	University of Arkansas at Fayetteville
Allen	Michelle	University of Arkansas at Little Rock
Ashburn	Charles	University of Arkansas at Little Rock
Baber	Connie	Henderson State University
Bangs	Gene Lee	University of Arkansas at Little Rock
Bearden	Stacy Lee	Arkansas State University
Brar	Mohanjeet Singh	University of Arkansas at Fayetteville
Bray, Jr.	James R.	Henderson State University
Caster	Paul	Univ. of Arkansas at Little Rock
Clark	Murray R.	University of Arkansas at Little Rock
Climmer	Amber	University of Arkansas at Little Rock
Davis	Angela Wynette	University of Arkansas at Pine Bluff
Dukes	Rebecca	
Elder	Ginger	Arkansas State University
Eller	David	Henderson State University
Ezell	Thomas	University of Arkansas at Little Rock
Flores	Kenda	
Freeman	Leah	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.
Howe	Wilson	University of Arkansas at Little Rock
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
Mauldin	Doug	University of Arkansas at Little Rock
McCloskey	Sue Ellen	University of Arkansas at Little Rock
Metcalf	Chris	Northeast Louisiana University
Moore	Matthew T.	Arkansas State University
Moore	Donna	University of Arkansas at Fayetteville
Murai	Kaz	University of Arkansas at Little Rock
Persons	Cecil C.	University of Arkansas at Little Rock
Pringle	John	University of the Ozarks
Richards	Austin B.	Arkansas State University
Sanchez	Carlos	University of Arkansas at Little Rock
Smith	Jerome V.	University of Arkansas at Little Rock
Smith	Anna	Henderson State University
Smith	Chris S.	University of Arkansas at Little Rock
Snider	D. H.	University of Arkansas at Little Rock
Stickel	Sara	Arkansas State University
Townsend	Teddy L.	University of Central Arkansas
Whitehead	Greg A.	Henderson State University
Williams	Gregg R.	Arkansas State University
Withgott	James H.	University of Arkansas at Fayetteville
Yang	Zibin	University of Arkansas at Little Rock