

1987

## 71st Annual Meeting, 1987. Secretary's Report and Financial Statement

Academy Editors

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# PROCEEDINGS ARKANSAS ACADEMY OF SCIENCE

Volume 41

1987

	Edmond Bacon President	
Gary Tucker President-Elect	Horace Marvin & Dave Chittenden Vice-President	Walter Godwin Secretary
Arthur Johnson Treasurer	James Fribourgh NAAS Delegate	Henry Robison Historian

## Secretary's Report

### MINUTES OF THE SEVENTY-FIRST ANNUAL MEETING, 3-4 APRIL 1987

#### FIRST BUSINESS MEETING

Ed Bacon, President, called the meeting to order.

John Rickett, Local Arrangements Chairman, introduced Dr. Joel Anderson of the University of Arkansas at Little Rock, who welcomed the Academy on behalf of UALR and the Capitol city. Rickett made several announcements. He asked that the session chairpersons try to stay on time. He also asked the presenters to be sure that slides are available to the projectionist before the session.

Walter Godwin, Secretary, presented the minutes of the Seventieth Annual Meeting and asked for any corrections to be presented in writing before the Second Business Meeting.

Art Johnson, Treasurer, presented the Financial Report. He briefly discussed the report and indicated that the Academy is in good financial shape. He indicated that the cost of the *Proceedings* is high but that it will be covered easily. He presented the following motion:

Mr. President, I move that the Academy raise the dues for regular members to \$15, for sustaining members to \$20, and for sponsoring members to \$30 while leaving the Associate dues and Life memberships the same.

The motion was seconded and will be voted on at the Second Business Meeting. An Audit Committee consisting of Bob Wiley (Chairman), Jim Fribourgh, and Dave Chittenden will examine the report. A copy of the report follows.

#### ★ ★ ★ FINANCIAL STATEMENT ★ ★ ★

Statement Approved by Audit April 6, 1985

First State Bank and Trust Co., Conway, AR	
TOTAL Account	5,254.93
Certificates of Deposit	
Security Savings and Loan Association of Conway	
Certificate of Deposit(C 01-70048490)	1,115.10
First State Bank and Trust Co., Conway(0007-769-4)	2,266.01
TOTAL FUNDS, April 5, 1986	\$ 8,636.04

#### SUMMARY

(March 12, 1986 to March 15, 1987)

Balance Approved by Audit on April 5, 1986		\$ 8,636.04
Total Income(Page 2)	13,276.41	
Total Expenses(Page 3)	11,417.00	
Balance for the Year	\$ 1,859.41	\$ 1,859.41
FUNDS ON HAND AS OF MARCH 15, 1987		\$ 10,495.45

#### DISTRIBUTION OF ACCOUNTS

TOTAL Account		\$ 5,686.07
Certificates of Deposit		
First State Bank and Trust Co., Conway(0007-769-4)		2,501.26
Security Savings and Loan Assn., Conway(C 01-70048490)		1,230.87
First National Bank of Conway(78940)		1,077.25
		\$ 10,495.45

#### INCOME: March 12, 1986 to March 15, 1987

1. ANNUAL MEETING: OBU APRIL 4-5, 1986		\$ 4,225.00
2. INDIVIDUAL MEMBERSHIPS		
a. Regular(115)	\$ 1,150.00	
b. Sustaining(12)	190.00	
c. Sponsoring(15)	900.00	
d. Life(3)	600.00	
d. Associate(2)	10.00	
Total	2,850.00	2,850.00
3. INSTITUTIONAL MEMBERSHIPS(22)		1,100.00
4. PROCEEDINGS, Subscriptions		284.50
5. PROCEEDINGS, MISC. SALES		935.10
6. PROCEEDINGS, Page Charges		2,680.00
7. BIOTA RECEIPTS		217.65
7. INTEREST		601.22
a. First State Bank and Trust Co.(Conway)		
1) TOTAL Account	250.20	
2) CD(0007-769-4)	235.25	
b. Security Savings and Loan Assn.(Conway) CD(C-01-70048490)	115.77	
8. ENDOWMENT		360.00
9. CHECK #197 NOT REDEEMED IN 1985-86 YEAR		22.94

#### TOTAL INCOME

TOTAL INCOME		\$ 13,276.41
EXPENSES: March 12, 1986 to March 15, 1987		
1. PROCEEDINGS: Publication and Distribution		
a. Phillips Litho Co., Inc.(#213)	\$7,856.20	
b. V. Rick McDaniel(#210)	107.31	
c. Mary Ann McDaniel(#201)	500.00	
Total	8,463.51	\$ 8,463.51
2. AWARDS		
a. Keitha R. Smith(#202)		50.00

## Secretary's Report

b. Monica L. Voolley(#203)	50.00	
c. Todd Harrison Rider(#207)	35.00	
d. Charles Eldon King(#208)	30.00	
e. Arkansas State Science Fair(#212)	200.00	
f. John D. Peck(#206)	28.60	
g. Junior Academy of Science(#215)	200.00	
Total	593.60	593.60
3. MEETING EXPENSES(OBU STATEMENT)		1,452.67
4. OPERATING COSTS		
a. President's Office(#209)	12.00	
b. Secretary's Office-Postage(#211, #214)	250.00	
c. Treasurer's Office-Supplies(#222)	20.74	
Total	282.74	282.74
5. NEWSLETTER		
a. Copy Cat(#216)	312.32	
b. UALR Biology Department(#217, 220)	88.92	
c. Gloria's Print and Office Supply(#219)	184.64	
Total	585.88	585.88
6. DUES-National Association of Academies of Science		28.60
7. MISCELLANEOUS(#220)		10.00
<b>TOTAL EXPENSES</b>		<b>\$ 11,417.00</b>

Respectfully Submitted

Arthur A. Johnson, Treasurer

Meeting: April 3-4, 1987  
Riverfront Hilton, North Little Rock, Arkansas--Sponsored by UALR

Rick McDaniel, Editor of the *Proceedings*, was not present so no report was presented on this year's edition. James Peck, the in-coming Editor, reminded presenters that papers should be in proper journal format. He also reminded section chairs be sure to collect papers at the sessions and to turn in those papers. He presented the following motion:

Mr. President, I move that the Academy appropriate \$500.00 for editorial assistance and \$120.00 for travel for preparation of Volume 41 of the *Proceedings*.

The motion was seconded and will be voted on at the Second Business Meeting.

John Rickett, Editor of the Newsletter, indicated that 1327 copies of the fall Newsletter and 347 copies of the spring Newsletter were distributed. He stated that he needs institutional representatives from some institutions to gather news for the spring Newsletter. He moved that the Academy appropriate \$580 for the cost of the Newsletter for next year. The motion was seconded and will be voted on at the Second Business Meeting.

Art Johnson reported for Paul Krause concerning the Arkansas Junior Academy of Science. He discussed a letter from Krause indicating the need for financial support. He moved that the Academy appropriate the sum of \$200 to support the Arkansas Junior Academy of Science. The motion was seconded and will be voted on at the Second Business Meeting.

Art Johnson also reported for Mike Rapp, Director of the Arkansas Science Fair Association, reported on the Science Fair. He moved that the Academy appropriate \$200 to be given to the Arkansas Science Fair Association to support its activities. The motion was seconded and will be voted on at the Second Business Meeting. He reported on the success of the regional and state fairs. On behalf of Mike Rapp, he moved that appreciation be expressed to the regional directors. The motion was seconded. It was moved to amend the motion to include appreciation to Mike Rapp also. The amendment was seconded and passed. The final motion reads:

The Arkansas Academy of Science expresses its commendation to the following people for the many hours of hard work and planning

that they and others have given. This work has provided an opportunity to encourage and recognize the work of three to four hundred junior and senior high students and teachers.

Michael W. Rapp, State Director  
Bonnie Moody, Central Region  
Veryl Board, North Central Region  
Mark Draganjac and Joseph McGrath, Northeast Region  
Les Howick, Northwest Region  
Marc Steele, South Central Region  
Gordon Culpepper, Southeast Region  
Rudy Eichenberger, Southwest Region

The motion will be voted on at the Second Business Meeting.

John Peck, Director of the Arkansas Science Talent Search, reported on the results of this year's Talent Search. His report follows.

Following is the list of high school seniors who placed in the 36th Annual Arkansas Science Talent Search 1986-87, held in conjunction with the 46th Westinghouse Science Talent Search.

## First Place

Kyle James Weld	School: Weiner High School
P.O. Box 313	Teacher: Mr. Hillard Clark
Fisher, AR 72429	Project: Isolation of Bacteria that Modify Antibiotics

## Second Place

Seth Mingea Lowrey	School: Sheridan High School
P.O. Box 153	Teacher: Ms. Mary Frances Harper
Sheridan, AR 72150	Project: Excursions into Experimental Geometry

## Third Place

Deidre Michelle Schuchman	School: Oak Ridge Central High School
Route 1, Box 191	Teacher: Ms. Angelyn Baldwin
Ravenden Springs, AR	Project: The Presence or Absence of Auditory Stimuli: Their Effect on Cardiovascular and Neuromuscular Functions

He moved that the Academy appropriate \$120 to be used by the Arkansas Science Talent Search. The motion was seconded and will be voted on at the Second Business Meeting.

Tom Palko, Director of the Arkansas Junior Science and Humanities Symposium, reported that the Symposium had 109 papers submitted. Fifteen of these were read and five of these were awarded trips to the National Symposium and four were awarded scholarships. He stated that the Symposium does not need financial support. However, he requested assistance from scientists at the various institutions in identifying students doing summer research.

Henry Robison, Historian, reported that this is the 71st Annual Meeting and that it is the 5th time the Academy has been hosted by the University of Arkansas at Little Rock or its predecessors.

Eric Sundell, Chairman of the Nominating Committee, presented the nominees for Vice President. The nominees were Leo Bowman, Arkansas Tech University, and Dave Chittenden, Arkansas State University. An additional nomination of Tom Palko, Arkansas Tech University was made from the floor. It was moved and seconded to close nominations and the motion passed. He also indicated that the committee

## Arkansas Academy of Science

nominated Robert Wiley, University of Arkansas at Monticello, for Treasurer. No other nominations were made and it was moved and seconded to close nominations. The motion passed.

Leo Paulissen reported on the Biota Survey. Five new checklists are available including ferns, birds and fishes. A combined list is also now available and will be available tomorrow. He expressed appreciation for a \$200 contribution.

Robbin Anderson, Chairman of the Science Education Committee, indicated that a report of committee activities was available and discussed some areas of interest. He also asked those present who might be interested in activities of the committee to so indicate.

President Bacon asked for other Committee reports and there were none.

The Resolutions Committee will consist of Joe Guenter and Bob Watson.

President Bacon announced that the 1988 meeting will be at Arkansas Tech University and indicated that a site for the 1989 meeting is needed.

President Bacon asked for old business and none was presented.

President Bacon asked for new business and none was presented.

President Bacon encouraged section chairs to keep their sections on time and to not start presentations early.

President Bacon announced a Development Committee meeting for 4 P.M.

President Bacon adjourned the First Business Meeting.

### SECOND BUSINESS MEETING

Ed Bacon, President, called the meeting to order.

Walter Godwin, Secretary, moved the approval of the minutes of the Seventieth Annual Meeting as distributed with a correction in the spelling of the name Johnston. The motion was seconded and passed.

Erie Sundell, Chairman of the Nominating Committee, reported that the nominees for Vice President were Leo Bowman, Dave Chittenden, and Tom Palko. Ballots were distributed, collected and counted. He also reported that the only nominee for Treasurer was Robert Wiley. It was moved and seconded to accept Wiley as Treasurer by acclamation. The motion passed.

Art Johnson, Treasurer, distributed additional copies of the Treasurer's report and discussed it briefly. He moved that the Treasurer's Report be approved. The motion was seconded. Robert Wiley, Chairman of the Audit Committee, presented the following report from the Audit Committee.

The Audit Committee reviewed the attached 1986-87 Annual Financial Statement of the Academy and examined the various documentation submitted to us. We found the receipts and expenditures to be in order and the financial records to be in balance.

We also ask the Academy to join us in expressing our thanks and appreciation to Dr. Arthur A. Johnson for his services and dedication as Treasurer for the past five years.

Respectfully submitted,  
Robert W. Wiley, Chairman  
Dave Chittenden  
James H. Fribourgh

It was moved and seconded to accept the report of the Audit Committee. The motion passed. The initial motion concerning acceptance of the Treasurer's Report passed. The motion from the First Business Meeting to increase dues was restated. After some discussion, it was passed unanimously.

A report was presented on the results of the election for Vice President. A runoff was required between Dave Chittenden and Tom Palko. Ballots were again distributed, collected and counted.

Rick McDaniel, Editor of the *Proceedings*, reported that the *Proceedings* were not ready. He stated that he hoped that they would be ready by the end of the summer or at least by early fall. There will be fewer pages this year and thus less cost. The motion, presented at the First Business Meeting, to allocate \$620 for editorial assistance and travel for next year was passed.

John Rickett, Editor of the Newsletter, briefly repeated his discussion of the Newsletter. His motion, presented at the First Business Meeting, to allocate \$650 for the Newsletter for next year was passed.

Henry Robison, Historian, repeated his report from the First Business Meeting.

The motion, presented at the First Business Meeting, to allocate \$200 for support of the Junior Academy for next year was passed.

The motion, presented at the First Business Meeting, to allocate \$200 for support of the State Science Fair Association for next year was passed.

The motion, presented at the First Business Meeting, to allocate \$200 concerning commendation for the State and Regional Directors of the State Science Fair was passed.

John Peck again reported for the Arkansas Science Talent Search stating that 3 students received national honors and reporting the state winners. The motion he presented at the First Business Meeting to allocate \$120 for the Arkansas Science Talent Search for next year was passed.

Tom Palko, Director of the Arkansas Junior Science and Humanities Symposium, again requested assistance from memberships in aiding students in projects and identifying students who have performed projects which might be presented.

Leo Paulissen reported for the Development Committee. We have reached \$1000 in the Dwight Moore Fund and the money is now in a CD. Additional monies in the amount of \$600 have already been collected and he encouraged additional contributions.

Leo Paulissen also reported on the Biota Survey. Five new lists have been added including birds and vertebrates. A consolidated checklist is now available and all lists will be available after the meeting.

Phillip Kehler, Chairman of the Undergraduate Awards Committee acknowledged the Judges who were Dick Hanson, UALR, and Alex Nisbet, OBU, for Physical Science and John Bridgeman, U of O, Peggy Rae Dorris, HUS, and Neal Buffalo, UCA, for Life Science. He reported that the Undergraduate Awards had been won by:

Physical Sciences: Hal Palmer - UALR  
Thermal Analysis of Whey-Based Thermosetting Resins Using

## Secretary's Report

### Differential Scanning Calorimetry

Life Sciences: Belinda Raybon - UALR  
Repopulation by the Prairie Vole (*Microtus ochrogaster*) in an  
Accidentally Burned Field in Central Arkansas

Results of the runoff election for Vice President indicated that Dave Chittenden had been elected.

Joe Guenter, Chairman of the Resolutions Committee, on behalf of himself and Bob Watson moved the adoption of the following resolution.

Be it resolved:

The members of the Arkansas Academy of Science express their gratitude to the Riverfront Hilton and the University of Arkansas at Little Rock College of Sciences for hosting the 1986 meeting of the Arkansas Academy of Science and to Vice President and Provost Joel Anderson for his warm welcome. Special thanks are due to the Local Arrangements Committee: John Rickett (Chairman), Jim Fribourgh, Dick Prior, and Gary Heidt for arranging an excellent meeting. We appreciate the interesting (if unsettling) lecture on earthquakes presented by Arch Johnston (Memphis State University).

The Academy appreciates the efforts of the various section chairpersons: Alan Price and George Harp (Aquatic/Environmental), Thomas Lynch (Biomedical), Gary Tucker (Botany), Joe Jeffers and Ralph Wolfe (Chemistry), Phillip Kehler (Geology), Dale Ferguson (Microbiology), Joe Guenter (Physics), Robbin Anderson (Science Education Symposium), Leo Bowman (Science Education), and David Saugey (Zoology).

The Academy thanks the judges for the student research papers: Dick Hanson and Alex Nisbet (physical science papers) and Peggy Rae Dorris, John Bridgeman, and Neal Buffaloe (life science papers).

The Academy also expresses gratitude to the various directors of the science activities supported by the Academy: Robbin Anderson (Science Education Committee), Mike

Rapp (Director of the Arkansas Science and Engineering Fair), Tom Palko (Director of the Junior Science and Humanities Symposium), John Peck (Arkansas Science Talent Search), and Paul Krause (Arkansas Junior Academy of Science).

The Academy is grateful for the service of the officers of the Academy for 1986-1987: Edmond Bacon (President), Gary Tucker (President-Elect), Horace Marvin (Vice President), Walter Godwin (Secretary), Art Johnson (Treasurer), Rick McDaniel (Editor of the *Proceedings*), John Rickett (Editor of the Newsletter), Gary Heidt (Past President) and Henry Robison (Historian). The Academy especially appreciates the dedication and services of Art Johnson (Treasurer) and Rick McDaniel (Editor of the *Proceedings*) for the past five years.

The Academy members express their gratitude for the most enjoyable "Happy Hour" hosted by Jim Fribourgh and John Pauley and provided by UALR and UAMS.

The Academy appreciates the exhibits provided by Advanced Scientific and their representative David Brock.

Thanks is extended to Calvin Cotton for making the plaques for retiring officers and lettering the student research award certificates.

The Academy recognizes the dedicated and thorough work of the committee members and chairpersons: Leo Paulissen (biota Committee and Development Committee), Robbin Anderson (Science Education Committee), Jim Daly (Ad Hoc Committee on Sigma Xi Graduate Awards), Gary Tucker (Publicity Committee), Eric Sundell (Nominations Committee), Joe Guenter (Resolutions Committee), Rick McDaniel (Publications Committee), Robert Franke (Ad Hoc Committee on Arkansas Science and Technology Authority), Bob Wiley (Auditing Committee), Gary Heidt (Constitution Committee), and Phil Kehler (Awards Committee).

The motion was seconded and passed.

David Saugey presented a U.S. Forest Service Award to Darrel Heath for volunteer work. The award involved a Certificate of Appreciation for 1000 hours of service.

President Bacon presented a plaque in appreciation to Art Johnson who made a few brief comments. President Bacon also presented a plaque in appreciation to Rick McDaniel who also made a few brief comments. President Bacon recognized Calvin Cotton as creator of the plaques.

John Rickett expressed thanks to all the members for coming to the meeting and to the committees and students who worked on the meeting.

President Bacon read proclamations from the Governor concerning National Science Week for May of last year and for the next week for this year.

President Bacon called for old business and none was presented.

President Bacon called for new business and none was presented.

President Bacon announced that the meeting for next year will be at Arkansas Tech. He stated that there had been interest in the meeting for 1989 but no firm commitment had been made.

President Bacon called on President-Elect Gary Tucker and passed the gavel to him. President Tucker invited all members to the Arkansas Tech campus for next year's meeting. President Tucker presented Past President Bacon with a plaque in appreciation for his year of service. Bacon thanked the committees again for their work.

It was moved, seconded and passed to adjourn the meeting.

Respectfully submitted,

Walter E. Godwin  
Secretary

## Arkansas Academy of Science

## REGULAR MEMBERS

- John W. Ahlen  
Syed M. Aljaz  
Slike Mufnagel Allen  
Neil T. Allison  
John T. Annulis  
Michael L. Armstrong  
Robert K. Bacon  
Sara Mills Barnett  
Henry Barwood  
Adelphia M. Basford  
John K. Beadles  
Helen Benes  
John B. Bennett  
Ann Marie Benson  
Veryl V. Board  
Laurence J. Boucher  
William R. Bowen  
Robert E. Bowling  
Leo H. Bowman  
Jimmy D. Bragg  
John F. Bridgman  
Arthur Brown  
Neal D. Bufaloe  
Gary Burtie  
Kay Cargill  
Robert Carlus  
Stanley L. Chapman  
Frances E. Clayton  
Malcolm K. Cleaveland  
Richard R. Cohoon  
Janice Lorraine Cooper  
Bob W. Cowling  
R. T. Cox  
James G. Culpepper  
Fred Dalsake  
James J. Daly  
James T. Daniels  
Stanley N. David  
David L. Davies  
Don C. De Luca  
Robert H. Dilday  
Ronald M. Doran  
Larry W. Dorman  
Feggy Rea Dorris  
Marlan Douglas  
Benjamin T. Duhart  
Dauny J. Ebert  
Jim Edson  
Rudolph J. Eichenberger  
Hudson S. Eldridge  
Daniel R. England  
Don England  
Lavana England-Whaley  
Claude E. Epperson  
Steve Filipek  
Sheldon Fitzpatrick  
E. P. Floyd  
Thomas L. Fott  
Robert Franke  
Joe P. Gentry  
Michael George  
John Glese  
Phillip S. Gipson  
Mattie Glover  
Walter E. Godwin  
D. Leroy Gray  
Gaston Griggs  
Tyrrel C. Grohman  
Mark Gross  
William C. Guetz  
Michael Halter  
Earl L. Hanebrink  
S. J. Hankins  
Richard H. Hanson  
James W. Hardin  
George L. Harp  
John L. Harris  
Calvin J. Hawkins  
Roger M. Hawk  
Mustafa Heumati  
Jo Ann Heslip  
Craig Hilburn  
John R. Hodges  
John Holtman  
Arthur Hoyt, Jr.  
Joe Jeffers  
Hugh A. Johnson  
Michael L. Johnson  
Jay Justice  
Phillip L. Kehler  
William E. Keith  
Rej V. Kilaabi  
Scott Kirkconnell  
Maurice C. Kieve  
Arkansas Science & Technology Authority  
University of Arkansas at Pine Bluff  
Hendrix College  
University of Arkansas  
University of Arkansas at Monticello  
Arkansas Game & Fish Commission  
University of Arkansas  
Texarkana High School  
Arkansas Mining Institute  
Henderson State University (Retired)  
Arkansas State University  
University of Arkansas for Medical Sciences  
Arkansas State University  
University of Arkansas for Medical Sciences  
Arkansas College  
Arkansas State University  
University of Arkansas at Little Rock  
University of Arkansas for Medical Sciences  
Arkansas Tech University  
Henderson State University  
University of the Ozarks  
University of Arkansas  
University of Central Arkansas  
University of Arkansas at Pine Bluff  
University of Arkansas  
Arkansas College  
Univ. of Ark. Cooperative Extension Service  
University of Arkansas  
University of Arkansas  
Arkansas Tech University  
Arkansas State University  
University of Arkansas at Monticello  
University of Central Arkansas  
University of Arkansas for Medical Sciences  
SAU - Tech  
Arkansas State University  
University of Arkansas for Medical Sciences  
University of Arkansas for Medical Sciences  
Univ. of Ark. Cooperative Extension Service  
Harding University  
Univ. of Ark. Cooperative Extension Service  
Henderson State University  
University of Arkansas at Pine Bluff  
U. S. Forest Service  
University of Arkansas at Monticello  
Southern Arkansas University  
University of Central Arkansas  
Southern Arkansas University  
Harding University  
University of Arkansas for Medical Sciences  
Arkansas Game & Fish Commission  
University of Arkansas at Pine Bluff  
U. S. Public Health Service (Retired)  
Arkansas Natural History Commission  
University of Arkansas at Little Rock  
Arkansas Science & Technology Authority  
Arkansas State University  
Arkansas Dept. of Pollution Control & Ecology  
Arkansas Game & Fish Commission  
University of Arkansas at Pine Bluff  
University of Arkansas at Monticello  
Univ. of Ark. Cooperative Extension Service  
John Brown University  
University of Arkansas for Medical Sciences  
U. of Ark. Graduate Institute of Technology  
University of Arkansas  
University of Central Arkansas  
Arkansas State University  
Univ. of Ark. Cooperative Extension Service  
University of Arkansas at Little Rock  
University of Arkansas for Medical Sciences  
Arkansas State University  
Arkansas Highway & Transportation Department  
Arkansas Game & Fish Commission  
U. of Ark. Graduate Institute of Technology  
Arkansas Tech University  
University of Arkansas at Pine Bluff  
Arkansas Game & Fish Commission  
University of Arkansas at Little Rock  
University of Central Arkansas  
Ouachita Baptist University  
Southern Arkansas University  
Nettleton High School  
Arkansas Dept. of Pollution Control & Ecology  
University of Arkansas at Little Rock  
Arkansas Dept. of Pollution Control & Ecology  
University of Arkansas  
Arkansas Tech University  
University of Arkansas at Little Rock  
Richard Klusender  
Scott S. Knight  
Robert G. Knox  
Roger E. Kospe II  
C. K. Koltman  
Randall A. Kopper  
Timothy A. Kral  
Jack C. Krete  
Marie L. Lavallard  
Norman Laver  
Kwang Lee  
Jerry L. Linnstaedter  
A. N. Ludwig  
Thomas J. Lynch  
All Mansouri  
Daniel L. Marsh  
Chris T. McAllister  
William H. McArthur  
Nancy Glover McCartney  
Clark W. McCarty  
Rose McConnell  
Dennis W. McMasters  
Harlan McMillan  
Lawrence A. Mink  
Richard S. Mitchell  
Jewel E. Moore  
Ronald D. Moore  
Leland F. Morgans  
Walter Neasbitt  
Thomas Nelson  
Ann H. Nichols  
Joe Six  
Kelly H. Oliver  
Derrick M. Oosterhuis  
Tom Palko  
Bryan D. Palmer  
John E. Pauly  
Porreac Payne  
John D. Pauck  
Carlos H. Pennington  
James C. Peterson  
Robert A. Pierce  
Albert B. Pittman  
Paul J. Polechia, Jr.  
Harold Pray  
Denver L. Prince  
Paul L. Raines  
Michael W. Rapp  
Ruby S. Reynolds  
Edward L. Richards  
Feggy Root  
Perry C. Rothrock, III  
John A. Sealand  
Frank L. Settiff  
Larry Seward  
Elwood B. Shade  
Bill Shepherd  
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Dovey H. Sifford  
Edwin B. Smith  
Kenneth L. Smith  
W. Grady Smith  
Roy J. Smitth, Jr.  
Clifford S. Snyder  
Frederick W. Spiegel  
Joseph Sylvester  
Warfield Teague  
Lylel Thompson  
Les Torrance  
Stanley E. Trauth  
Denzil L. Tullie  
Renn Tumilson  
Glyn Turnipseed  
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David E. Wemmerstrom  
Jon Whitesell  
Marlon C. Wicht, Jr.  
T. Bentley Wigley  
Robert W. Willey  
William M. Willingham  
Edmond W. Wilson, Jr.  
Eugene B. Wittlake  
Duane C. Wolf  
Robert D. Wright  
Dominic T. Yang  
Jimmie D. Yeiser  
J. Lyndal York  
David A. Young  
University of Arkansas at Monticello  
U. S. Department of Agriculture  
University of North Carolina  
University of Arkansas  
Hendrix College  
University of Arkansas  
Fayetteville Public Schools  
University of Arkansas (Retired)  
Arkansas State University  
University of Arkansas at Pine Bluff  
Arkansas State University  
U. S. Geological Survey  
University of Arkansas at Little Rock  
University of Arkansas for Medical Sciences  
Henderson State University  
Dallas VA Medical Center  
University of Arkansas at Pine Bluff  
University of Arkansas  
Ouachita Baptist University  
University of Arkansas at Pine Bluff  
Henderson State University  
Arkansas Tech University  
Arkansas State University  
University of Central Arkansas (Retired)  
Arkansas Game & Fish Commission  
University of Arkansas at Little Rock  
Arkansas State University  
Arkansas Tech University  
University of Arkansas at Little Rock  
Ouachita Baptist University  
Henderson State University  
University of Arkansas  
Arkansas Tech University  
Henderson State University  
University of Arkansas for Medical Sciences  
FTN Associates  
University of Central Arkansas  
USAE Waterways Experiment Station  
U. S. Geological Survey  
Univ. of Ark. Cooperative Extension Service  
Arkansas Natural History Commission  
University of Arkansas  
University of Central Arkansas  
University of Central Arkansas  
Arkansas State University  
University of Central Arkansas  
Arkansas State University  
Southern Arkansas University  
University of Arkansas for Medical Sciences  
University of Arkansas  
University of Arkansas at Little Rock  
John Brown University  
University of Arkansas at Monticello (Ret.)  
Arkansas Natural History Commission  
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University of Arkansas at Pine Bluff  
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University of Arkansas  
Arkansas Highway & Transportation Department  
University of Arkansas for Medical Sciences  
University of Arkansas at Little Rock  
Arkansas College  
University of Arkansas at Monticello  
University of Arkansas at Monticello  
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