

2009

93rd Annual Meeting, 2009. Secretary's Report and Financial Statement

Academy Editors

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**JOURNAL
ARKANSAS ACADEMY OF SCIENCE**

Annual Meeting April 3-4 2009
University of the Ozarks

Scott Kirkconnell
President

Jeff Robertson
President-Elect

Jeff Robertson
Secretary

Mostafa Hemmati
Treasurer

Mostafa Hemmati
JAAS Editor-in-Chief

Collis Geren
Historian

Secretary's Report

MINUTES OF THE 93rd MEETING

ARKANSAS ACADEMY OF SCIENCE
93rd ANNUAL MEETING
SUMMARY OF BUSINESS MEETINGS
University of the Ozarks
April 4, 2009

1. The meeting was called to order by President Joyce Hardin with 3 tiny taps of the gavel.
2. Local Arrangements Committee, 2009: Bill Doria
Registration information, campus orientation, and meeting schedules were presented by Bill Doria.
3. Secretary's Report: Jeff Robertson
Minutes from the 2008 November Executive Committee Meeting were reviewed and accepted. There are currently 100 AAS members (48 of which are life members). This number represents 20 less regular members than last year and 20 less than the year before.
4. Treasurer's Report: Mostafa Hemmati
An accounting of the AAS "net worth" follows in Appendix A.
5. Historian's Report: Collis Geren
The AAS annual meeting this year at University of the Ozarks will be the 93rd meeting of the AAS and the first time ever at University of the Ozarks (founded in 1834, UO is the oldest institution of higher education in Arkansas).
6. Newsletter Editor's Report: Jeff Robertson
The newsletter was sent out completely electronically for the first time. It was distributed to members past and present, all academic science

departments of 4-year and 2-year institutions as well as related institutions (e.g. Arkansas Game and Fish, US Forest Service, etc).

7. Journal Editor-In-Chief Report: Mostafa Hemmati
All papers were read for grammar and spelling at a cost of (\$800) in addition to being distributed to a total of three separate peer reviewers. Journal reviews, editing and payments were completed by the end of October of 2008. Journal authors now play an important role as the final editor for their publication.
8. Interim Journal Managing Editor Report: Ivan Still
33 manuscripts were submitted for publication in volume 62 (2008) of the JAAS at the Henderson State University, an increase from the 29 submitted in the previous year. 1 manuscript was rejected, and 8 manuscripts were later withdrawn without prejudice by the corresponding authors. Two authors contacted us, having not been contacted by the editorial staff regarding manuscripts submitted at the Henderson State meeting. These two manuscripts had not been forwarded to Dr. Hemmati after the meeting, and thus had not been processed. Such breakdown of communication should be avoided in the future by our proposal to adjust the manuscript submission at the annual meeting and the complete adoption of electronic manuscript processing. Journal publication was completed by January 2009. PDFs of individual Journal paper contributions will be sent to authors. Dr. Hemmati and myself would like to pass special thanks to assistant editor Sarah Norman for reviewing manuscripts for spelling and grammar.

Secretary's Report

9. Nominations Committee: Mostafa Hemmati
Nominations were accepted for AAS Vice-president (Marc Seigar, Kurt Grafton) and Journal Managing Editor (Ivan Still).
10. Science Fair Association's Report: Michael Rapp
No report
11. Arkansas Junior Academy of Science Report:
No report
2010 Meeting will be April 1 & 2 at UCA.
12. Arkansas Science Talent Search: Wil Slaton
No report
13. Arkansas Science Teachers Association: Tillman Kennon
No Report
14. Committee Reports:
 - a. Biota Committee: Doug James
35 lists have been scanned and completed digitally on CD. 15 more animal and lower plant taxa lists are left to be completed.
Request for \$500 to continue scanning, checking and editing of biota lists.
Linking of the lists on the web to the AAS website is also planned.
 - b. AAAS Representative Report: Mostafa Hemmati
Mostafa has been our representative at the National level and funding requested to attend the AAAS meeting. Volunteers will be solicited at the business meeting for his replacement.
 - c. Development Committee: Betty Crump
Need to establish an AAS membership committee to help with the expansion and development of the membership.
Ben Wheeler showcased an AAS logo T-shirt for a fundraiser. \$15/shirt, \$20 if shipped. Invoice for the first 40 shirts given to the treasurer for payment as 501c3 non-profit.
15. Business Old and New:
The 94th annual AAS meeting will be April 9-10, 2010 at UALR in Little Rock. Hosts for future meetings will need to be solicited (UAM-2011?).
16. Action Items:
Ivan Still nominated to the position of Managing Editor of the Journal.

Kurt Grafton nominated for Vice-president.
Need to ensure that the Journal is sent to the UArk library each year and communication about scanning and archiving up to date (Managing editor's job).
Send out AAS by-laws for review at fall 2009 Executive Committee Meeting.
AAS representative to the national AAAS meeting needed.
Invoice reminders for membership renewals OR AAS membership free for registration and meeting attendance and fees required for renewal?

17. Motions:
Establish a membership committee.
AAS budget (outside of Journal costs) requested for 2009-2010.
Pending reports from these groups, approval of funding student awards is requested (Junior Science and Humanities Symposium \$100, Arkansas Science Fair Association \$400, Arkansas Junior Academy of Science \$250).
Increase student membership \$20 and includes a copy of the Journal.

Meeting Adjourned ~ 11:50 am

Jeff Robertson, AAS Secretary

**Treasurer's Report
ARKANSAS ACADEMY OF SCIENCE
2009 FINANCIAL STATEMENT
January 7 2010**

Balance – December 28, 2009	\$66,296.30
Balance – December 31, 2008	\$52,841.73

Net Gain	\$13,454.57

DISTRIBUTION OF FUNDS

Checking Account Bank of the Ozarks, Russellville, AR, 12-17-09	\$3,760.77
Checking Account Bank of America, Russellville, AR, Opened 05-13-09 Transfer from Bank of the Ozarks' Checking	\$500.00

Arkansas Academy of Science

Certificate of Deposit		f. CD5 (Bank of the Ozarks, Closed)	096	\$44.71
Life Membership Endowment,	\$14,962.66	g. CD6 (Bank of the Ozarks, Closed)	427	\$73.59
Bank of the Ozarks, Russellville, AR, 12-31-2009		h. CD7 (Bank of the Ozarks, Closed)	0938	\$74.41
Maturity Date 02-11-2010		i. Checking Account, Bank of America		-0-
Dwight Moore Endowment +	\$20,051.55	j. CD8, (Bank of America, Closed)	784	\$51.55
(Dwight Moore's final balance of \$6,002.73+ Short term CD's final balance of \$4,157.77+ \$9,839.50 from the Bank of the Ozarks checking account = \$20,000.)		k. CD9, (Bank of America)	627	\$214.53
The new CD will mature on 01-10-2011)		All interests were added to the CDs		\$1,179.46
Phoebe and George Harp Endowment +	\$17,714.53	4. JOURNAL		
Bank of America, Russellville, AR, 12-29-09		b. Page Charges (Volume 63 + one 62)		\$9,100.00
(\$7601 Harp+\$6515.15 CD + \$3383.85 Checking)=\$17500 CD,		c. Miscellaneous Sale		\$2,600.00
\$17,500 + \$214.53 (Interest Paid) = \$17,714.53, Maturity Date 11-13-2010				\$11,700.00
Short Term CD	\$9,306.79	5. JOURNAL CONTRIBUTION		\$0.00
Bank of the Ozarks, Russellville, AR, 12-29-09		6. MEMBERSHIP		
Matured on 2-27-09; renewed it on 3-5-09.		a. Associate		\$30.00
The new maturity date is 2-27-2010.		c. Individual		\$420.00
Combined interest on all accounts was \$1,179.46		d. Institutional		\$300.00
(Bank of the Ozarks interests on closed CDs, October 28, 2009, CD6 = \$73.59, CD7 = 74.41, CD4 = \$85.85, CD5 = \$44.71)		e. Life		\$200.00
		f. Sponsoring		\$45.00
		g. From Annual Meeting		\$1,165.00
		h. Sustaining		\$35.00
Total	\$66,296.30			\$2,195.00
INCOME:		7. MISCELLANEOUS INCOME		
1. ANNUAL MEETING		(Annual meeting not included)		
a. Checks from Bill \$4445-Membership Fees \$1165- Betty's Contribution \$55- Check made to Bill \$2989.84 = \$235.16		a. Check Ben for tee shirts		\$360.00
b. Check from University of the Ozarks made to AAS = \$510.00		b. Checks from sale of tee Shirts		\$75.00
		c. EBSCO Subscription Services		\$50.00
	\$745.16			\$485.00
2. GIFTS RECEIVED		TOTAL INCOME		\$17,180.16
a. Betty Crump	\$55.00	EXPENSES		
b. USDA Ouachita National Forest Sponsorship (Betty Crump)	\$1,000.00	1. STUDENT AWARDS		
c. Contribution received from John T.	\$1,000.00	a. Amanda Harvey		\$100
	\$2,055.00	b. Carissa Ganong		\$100
3. INTEREST		c. Helen Chang		\$50
(Interest Earned Year to Date, ~ December 28, 2009)		d. Douglas Leasure		\$50
a. Checking Account, Bank of the Ozark 448	\$5.83	e. Douglas Leasure		\$100
b. CD1 (Bank of the Ozarks) 594	\$205.27	f. Rashmi Tiwari		\$50
c. CD2 (Bank of the Ozarks) 929	\$423.72	g. Komal Rasaputra		\$50
d. CD3 (Bank of the Ozarks) 583	-0-	h. John Snider		\$100
e. CD4 (Bank of the Ozarks, Closed) 436	\$85.85	i. Frederick Felizco		\$50

Treasurer's Report

j.	Michael Sattler	\$50
k.	Jeremy Lusk	\$100
l.	Sachin Terdalkar	\$100
m.	Norman Riggan	\$100

\$1,000

2. AWARDS

a.	Junior Science and Humanities Sym.	\$100
b.	Arkansas State Science Fair	\$400
c.	Arkansas Junior Academy of Science	\$250
d.	Arkansas Science Talent Search	0

\$750

3. JOURNAL

a.	Journal Charges, Vol. 62 Printing Cost	\$2,865.00
b.	Journal Mailing Cost – ATU	\$102.49
c.	Journal Editorial Cost	0

\$2,967.49

4. NEWSLETTER

0

5. MISCELLANEOUS EXPENSES

a.	Annual Dues, National Asso. Academies	\$64.10
b.	AAS Tee Shirts Cost	\$380.00
c.	Doug James's Biota Project	\$500.00

\$944.10

6. TRANSFER TO BA CD and BA Checking

a. [Two Bank of the Ozarks' Matured CDs (\$6515.15 + \$7601) + \$3,883.85 = \$18,000 = Bank of America's CD \$17,500 + Bank of America Checking \$500] \$3,883.85

b. [Two Bank of the Ozarks' Matured CDs (Dwight Moore \$6,002.73 + Short Term \$4,157.77) + \$9,839.30 from Bank of the Ozarks' Checking = \$20,000 Bank of America CD] \$9,839.30

Total Transfer to CD \$13,723.15

TOTAL EXPENSES \$5,661.59

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**ARKANSAS ACADEMY OF SCIENCE
COST OF JOURNAL**

VOLUME	COPIES	PAGES	PRINTER CHARGE	TOT. VOL. COST	COST/ COPY	COST/ PAGE
35 (1981)	450	96	\$3,694.68	\$4,620.99	\$10.27	\$48.14
36 (1982)	450	110	\$5,233.28	\$5,291.69	\$11.76	\$48.11
37 (1983)	450	103	\$5,326.91	\$5,944.44	\$13.21	\$57.71
38 (1984)	450	97	\$5,562.97	\$6,167.72	\$13.71	\$63.58
39 (1985)	450	150	\$7,856.20	\$8,463.51	\$18.81	\$56.42
40 (1986)	450	98	\$6,175.20	\$6,675.20	\$14.23	\$68.11
41 (1987)	450	116	\$7,122.79	\$7,811.25	\$17.36	\$67.34
42 (1988)	450*	116	\$7,210.79	\$7,710.15	\$17.13	\$66.47
43 (1989)	450*	119	\$8,057.24	\$8,557.24	\$19.02	\$71.91
44 (1990)	450*	136	\$9,298.64	\$9,798.64	\$21.77	\$72.05
45 (1991)	450*	136	\$9,397.07	\$9,929.32	\$22.06	\$73.01
46 (1992)	450*	116	\$9,478.56	\$10,000.56	\$22.22	\$86.21
47 (1993)	400	160	\$12,161.26	\$12,861.26	\$32.15	\$80.38
48 (1994)	450	270	\$17,562.46	\$18,262.46	\$40.58	\$67.63
49 (1995)	390	199	\$14,725.40	\$15,425.40	\$39.55	\$77.51
50 (1996)	345	158	\$11,950.00	\$12,640.75	\$36.64	\$80.00
51 (1997)	350	214	\$14,308.01	\$15,008.01	\$42.88	\$70.13
52 (1998)	350	144	\$12,490.59	\$13,190.59	\$37.69	\$91.60
53 (1999)	350	160	\$13,686.39	\$14,386.39	\$41.10	\$89.91
54 (2000)	350	160	\$14,149.07	\$14,849.07	\$42.43	\$92.81
55 (2001)	360	195	\$16,677.22	\$17,498.22	\$48.61	\$89.73
56 (2002)	350	257	\$18,201.93	\$19,001.93	\$54.29	\$73.94
57 (2003)	230	229	\$14,415.12	\$15,715.12	\$68.33	\$68.62
58 (2004)	210	144	\$7,875.76	\$9,175.76	\$43.99	\$63.72
59 (2005)	215	226	\$16,239.04	\$17,835.84	\$82.96	\$78.92
60 (2006)	220	204	\$11,348.06	\$12,934.30	\$58.79	\$63.40
61 (2007)	195	150	\$8,196.84	\$9,914.69	\$50.84	\$66.10
62 (2008)	220	166	\$2,865.00	\$2,967.49	\$13.49	\$17.88

The Total Volume Cost equals the printer's charge plus the editor, editorial assistant, and other miscellaneous charges.

- On Volume 42 the Academy received 560 copies, but the printer did not charge us for the extra 110 copies. For comparison purposes the calculated cost/copy is based on 450 copies.
- On Volume 43 the Academy received 523 copies, but the printer did not charge us for the extra 73 copies. For comparison purposes the calculated cost/copy is based on 450 copies.
- On Volume 44 the Academy received 535 copies, but the printer did not charge us for the extra 85 copies. For comparison purposes the calculated cost/copy is based on 450 copies.
- On Volume 45 the Academy received 594 copies, but the printer did not charge us for the extra 144 copies. For comparison purposes the calculated cost/copy is based on 450 copies.
- On Volume 46 the cost was greater than usual due to the high cost of a second reprinting of 54 copies by a different printer.

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APPENDIX A

2009 AAS Presentation Award Winners

GRADUATE STUDENT AWARDS

Poster Awards

- 1st Place:** “Distribution and Function of Girdling by Caterpillars of Prominent Moths (Lepidoptera: Notodontidae)” by Carissa N Ganong and David E Dussourd, of the University of Central Arkansas.

Oral Presentation Awards

Graduate Life Sciences

- 1st Place:** “Effect of High Temperature on Pollen-Tube Growth and Energetics in the Cotton Pistil” by John L Snider, Derrick M Oosterhuis, Briggs W Skulman, Eduardo M Kawakami, and Diana K Storch of the University of Arkansas – Fayetteville.
- 2nd Place:** “Proteomic Changes in Tibial Head Cartilage of Chickens with Tibial Dyschondroplasia, a Metabolic Skeletal Disease” by Komal S Rasaputra, Rohana Liyanage, Jackson O Lay, and Narayan C Rath of the University of Arkansas – Fayetteville.
- 3rd Place:** “Effect of Salt on Several Genotypes of *Gossypium* (Cotton)” by Rashmi S Tiwari and James M Stewart of the University of Arkansas – Fayetteville.

Graduate Physical Sciences

- 1st Place:** “Land Use/Land Cover Classification Project: A Comparison of Pixel-Based versus Object-Based Methodologies” by Norman D Riggan Jr and Robert C Weih Jr of the University of Arkansas – Monticello.
- 2nd Place:** “Atomic Fracture Mechanism of Graphene Sheet” by Sachin S Terdalkar, Sulin L Zhang, and Joseph J Rencis of the University of Arkansas – Fayetteville.

UNDERGRADUATE STUDENT AWARDS

Poster Awards

- 1st Place:** “Microwave-Assisted Synthesis of Ruthenium-DMSO Complexes” by Amanda Harvey, Shengkuei Chui, Rian Snell, Mark Draganjac, and Ellis Benjamin of Arkansas State University.

Oral Presentation Awards

Undergraduate Life Sciences

- 1st Place:** “Endangered *Nicrophorus americanus* Prefer Disturbed Successional Communities at Military Installation in Western Arkansas” by Douglas R Leasure and Kristine A Garner of the University of Arkansas – Fort Smith.
- 2nd Place:** “House Sparrows Reduce Nesting Success of Cliff Swallows in Western Arkansas” by Douglas R Leasure, Ragupathy Kannan, and Douglas A James of the University of Arkansas – Fort Smith.
- 3rd Place:** “Response of Avian Populations to Woodland Restoration in the Ozark Mountains, Arkansas” by Helen Chang and Maureen R McClung of the University of Arkansas – Fayetteville.

Undergraduate Physical Sciences

- 1st Place:** “Error Analysis in Stellar Abundance Models Used for n-Capture Abundance Determinations” by Jeremy Lusk and Debra L Burris of the University of Central Arkansas.
- 2nd Place:** “Magnetic Field Controlled Spray Deposition of Nickel Ink to Form Electrically Conductive Contact Patters – Part I. Use of an Electromagnet” by Michael Sattler, Robert Engelken, Frederick M Felizco, Alan Hickerson, Shyam Thapa, and Tom Jacobs of Arkansas State University.
- 3rd Place:** “Magnetic Field Controlled Spray Deposition of Nickel Ink to Form Electrically Conductive Contact Patters – Part II. Results with a Permanent Magnet and with No Magnetic Field” by Frederick M Felizco, Robert Engelken, Michael Sattler, Alan Hickerson, and Shyam Thapa of Arkansas State University.

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**APPENDIX B
RESOLUTIONS**

**Arkansas Academy of Science
93rd Annual Meeting, 2009 Resolutions**

Be it resolved that we, the membership of the Arkansas Academy of Science, offer our sincere appreciation to University of the Ozarks for hosting the 93rd annual meeting of the Arkansas Academy of Science. We thank the Local Arrangements Committee: Chair Bill Doria, the faculty of the University of the Ozarks and all of the student workers and staff, particularly secretaries Marian Askins and Emmalee Morrow, who collectively contributed to such a successful meeting. We especially thank our Keynote Speaker, Dr. Marc Seigar for his participation presentation entitled "Dark Matter in Spiral Galaxies." We thank University of the Ozarks for their donations to the Social and Banquet, which were both excellent and thoroughly enjoyed by all. We thank University of the Ozarks President Rick Niece for hosting the AAS and Vice President for Academic Affairs Dan Taddie for his welcome address.

The Academy recognizes the important role assumed by Session Chairs and expresses sincere appreciation to: Anwar A Bhuiyan, Daniel A Bullock, Debra L Burris, Anthony K Grafton, Joyce Hardin, John L Harris, David Jamieson, Moluwa M Matute, Thomas Smith, James M Stewart, JD Swanson, and Stanley E Trauth. We also recognize the contributions of the Judges who facilitate student participation and awards.

We gratefully acknowledge the various directors of the science and youth activities which are supported or supervised by the Academy: Betty Crump, Development; Tillmon Kennon, Science Education Committee; William Slaton, Arkansas Science Talent Search; Nolan Carter; Junior Academy of Science; Mark Bland, Arkansas Science Fair; and Linda Kondrick, Arkansas Junior Science and Humanities Association. We wish to thank all those who served as directors at Regional Science Fairs and Junior Academy Meetings.

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: Joyce Hardin (President), Scott Kirkconnell (President-Elect), Jeff Robertson (Vice-President), Collis Geren (Past-President), Jeff Robertson (Secretary), Mostafa Hemmati (Treasurer), Mostafa Hemmati (Journal Editor-in Chief), Ivan Still (Journal Managing Editor), Jeff Robertson (Newsletter Editor, Webmaster), and Collis Geren (Historian).

Respectfully submitted this 4th day of April, 2009.

Resolution Committee
Jeff Robertson, AAS Vice President, Secretary
Bill Doria, UO LOC Chair

Arkansas Academy of Science

2009-2010 MEMBERSHIP

LIFE MEMBERS

FIRST MI.	LAST NAME	INSTITUTION
Edmond J.	Bacon	University of Arkansas-Monticello
Vernon	Bates	Ouachita Mountains Biological Station
Floyd	Beckford	Lyon College
Wilfred J.	Braithwaite	University of Arkansas-Little Rock
Calvin	Cotton	Geographics Silk Screening Co.
Betty	Crump	Ouachita National Forest
James	Daly	University of Arkansas for Medical Sciences
Leo	Davis	Southern Arkansas University
Mark	Draganjac	Arkansas State University
Jim	Edson	University of Arkansas at Monticello
Daniel R.	England	Southern Arkansas University
Kim	Fifer	University of Arkansas for 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 at Monticello
Anthony	Grafton	Lyon College
Joe M.	Guenther	University of Arkansas at Monticello
Joyce	Hardin	Hendrix College
George	Harp	Arkansas State University
Phoebe	Harp	Arkansas State University
Gary	Heidt	University of Arkansas-Little Rock
Mostafa	Hemmati	Arkansas Tech University
Philip	Hyatt	retired
Douglas	James	University of Arkansas-Fayetteville
Ronald	Javitch	Natural History Rare Book Foundation
Arthur	Johnson	Hendrix College
Cindy	Kane	University of Arkansas for Medical Sciences
Scott	Kirkconnell	Arkansas Tech University
Roger	Koepp	University of Arkansas-Fayetteville
Roland	McDaniel	FTN Associates
Grover	Miler	University of Arkansas for Medical Sciences
Herbert	Monoson	Ark. Science & Technology Authority
James	Peck	University of Arkansas at Little Rock
Michael	Rapp	University of Central Arkansas
Dennis	Richardson	Quinnipiac College
Jeff	Robertson	Arkansas Tech University
Henry	Robison	Southern Arkansas University
David	Saugey	U.S. Forest Service
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
Steve	Zimmer	Arkansas Tech University
Benjamin	Rowley	University of Central Arkansas
Scott	White	Southern Arkansas University

REGULAR MEMBERS

FIRST MI.	LAST NAME	INSTITUTION
Alois	Adams	University of Arkansas-Little Rock
Mohammad	Akhter	Arkansas State University-Mountain Home
Brent	Baker	University of Arkansas Herbarium
Anwar	Bhuiyan	Arkansas Tech University
Viktoriya A.	Black	Southern Arkansas University
Don	Bragg	USDA Forest Service
Tom	Buchanan	University of Arkansas-Ft. Smith
Debra L.	Burris	University of Central Arkansas
Stephen	Chordas III	Ohio State University
Mari	Davidson	University of Arkansas for Medical Sciences
Eddie	Dry	Arkansas State University - Mountain Home
Rudolph	Eichenberger	Southern Arkansas University
James	Engman	Henderson State University
Robert	Ficklin	University of Arkansas at Monticello
David	General	University of Arkansas at Monticello
Frank	Hardcastle	Arkansas Tech University
John	Harris	Arkansas Highway & Transportation
Shahidul	Islam	University of Arkansas at Pine Bluff
Salomon	Itza	University of the Ozarks
Tillman	Kennon	Arkansas State University
Ryan	Laddusaw	University of Arkansas /Medical Sciences
Janet	Lanza	University of Arkansas at Little Rock
David	Martinez	U.S. Fish and Wildlife Service
Mike	Matthews	Henderson State University
Chris	McAllister	RapidWrite, Hot Springs National Park
Rahul	Mehta	University of Central Arkansas
Alex	Nisbet	Ouachita Baptist University
Forrest	Payne	University of Arkansas at Little Rock
Jacqueline	Potter	Wonder Junior High School
Thomas	Risch	Arkansas State University
Blake	Sasse	Arkansas Game and Fish Commission
Marc	Seigar	University of Arkansas at Little Rock
William	Shepherd	Audubon Arkansas
William	Slaton	University of Central Arkansas
Thomas	Smith	Southern Arkansas University
Ivan H.	Still	Arkansas Tech University
Lynne	Thompson	University of Arkansas- Monticello
Curtis	VanderSchaaf	University of Arkansas Monticello
Deborly	Wade	Central Baptist College
Robert	Weih	University of Arkansas-Monticello
Benjamin	Wheeler	UACC - Batesville
Ed	Wilson	Harding University
Joe M.	Winstead	Southern Arkansas University
Tsunemi	Yamashita	Arkansas Tech University
Steve	Yanoviak	University of Arkansas-Little Rock

SPONSORING/SUSTAINING MEMBERS

FIRST MI.	LAST NAME	INSTITUTION
Abdel	Bachri	Southern Arkansas University
Richard	Standage	USDA Forest Service

Arkansas Academy of Science

STUDENT MEMBERS

<u>FIRST MI.</u>	<u>LAST NAME</u>	<u>INSTITUTION</u>
Allison	Asher	Arkansas State University
Andres	Bacon	University of Arkansas-Monticello
Lauren	Blair	University of Arkansas for Medical Sciences
Jacob	Bock	University of Arkansas-Little Rock
Lindsay	Bradshaw	University of Arkansas for Medical Sciences
Heather	Clarke	University of Central Arkansas
Douglas	Dawson	University of Arkansas-Little Rock
Rebecca	Fry	University of Arkansas-Little Rock
Jacqueline	Harris	University of Arkansas-Little Rock
Kristin	Hester	University of Arkansas-Little Rock
Nathanael	Hilzinger	University of Central Arkansas
Cody	Hutson	Southern Arkansas University
Matthew	Jimerson	Southern Arkansas University
Abdoul	Koroney	Southern Arkansas University
Britne	Kuykendall	University of Central Arkansas
Kim	Mason	University of Central Arkansas
Leigh	Methvin	University of Central Arkansas
Sarah	Norman	Arkansas Tech University
Brett	Rabeneck	University of Central Arkansas
Jeremy	Rigsby	Arkansas Tech University
Ashley	Scott	University of Arkansas-Little Rock
Rich	Shaver	University of Arkansas-Little Rock
Dallas	Snider	University of Arkansas-Little Rock
Nickolas	South	University of Arkansas-Little Rock
Jeremy	Stark	University of Arkansas-Little Rock
Katie	Steed	University of Arkansas for Medical Sciences
Shane	Sullivan	University of Arkansas for Medical Sciences
Sharon	Sweeney	University of Arkansas-Little Rock
Allan	Thomas	University of Arkansas-Little Rock
Nathan	Wentz	Arkansas State University