

2008

92nd Annual Meeting, 2008. Secretary's Report and Financial Statement

Academy Editors

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JOURNAL ARKANSAS ACADEMY OF SCIENCE

Annual Meeting 11-12 April 2008
Henderson State University

Joyce Hardin
President

Scott Kirkconnell
President-Elect

Jeff Robertson
Secretary

Mostafa Hemmati
Treasurer

Mostafa Hemmati
JAAS Editor-in-Chief

Collis Geren
Historian

Secretary's Report MINUTES OF THE 92ND MEETING

ARKANSAS ACADEMY OF SCIENCE
92ST ANNUAL MEETING
SUMMARY OF 1ST and 2ND BUSINESS MEETINGS
Henderson State University
April 11-12, 2008

Undergraduate Poster

1ST Place: Russell Cline, 2ND Place: Wes Greer

Graduate Poster

1ST Place: Karen Vale

1. Collis Geren, President of the AAS called the meetings to order.
2. Local Organizing Committee: The LOC chair, Renn Tumilson reported that the meeting had 160 registered participants. There were 83 oral and 49 poster presentations. Brett Serviss announced the student awards with special thanks to the faculty judges:

Undergraduate Physical Science

1ST Place: Paul Minor, 2ND Place: Jason R. Robison,
3RD Place: Jerakaycia D. Boman

Graduate Physical Science

1ST Place: Allan Thomas

Undergraduate Life Science

1ST Place: Allicia Kellogg, 2ND Place: Jerred Caskey

Graduate Life Science

1ST Place: C. Brian Caldwell, 2ND Place: Jacy L. Wagnon, 3RD Place: Lauren P. Blair

Undergraduate Environmental Science

1ST Place: Nicole Freeman, 2ND Place: April Helms,
3RD Place: Michael Gilbert

Graduate Environmental Science

1ST Place: Tiffany A. Whitsitt,
2ND Place: Nathan J. Wentz

3. Secretary/Newsletter Editor/Webmaster: Jeff Robertson: Minutes from the 2007 November Executive Committee meeting were distributed and minutes from the 2007 April membership business meetings were distributed for review and accepted. There are currently 125 AAS members, 47 of which are life members. The current public portal website is paid for through 2017 (<http://www.ArkansasAcademyofScience.org>).
4. Treasurer/Auditor: Mostafa Hemmati: The "books" maintained by the Academy Treasurer were reviewed by members of the Executive Committee and found to be good financial records kept with excellent integrity and showing no inconsistencies or irregularities with only an \$11 imbalance hardly worth mentioning (The financial status of the Academy is in an Appendix found elsewhere in this JAAS volume for review). A request for ~\$100 to prepare taxes for the Academy has become necessary with new tax law.
5. Historian: Henry Robison: The AAS annual meeting this year at Henderson State University will be the 92ND meeting of the AAS and the 6TH time at HSU. HSU previously hosted the meeting in 1935, '41, '68 (jointly with OBU), '82, and '93). This is the first time it has been held jointly with the Arkansas Undergraduate Research Conference Henry Robison is stepping down after 25 years of service as the AAS historian.

Secretary's Report

6. Nominations Committee: Mostafa Hemmati: The committee submitted candidates for Historian (Collis Geren) who was elected by acclamation and ballots were cast for Vice-President between Jeff Robertson and Derek Sears. Jeff Robertson was elected to serve and will be President-elect in 2009 and President in 2010.

7. Journal Editor-in-Chief: Stan Trauth: Reported that the printing of Volume 61 went smoothly this year. I continue to use Bank and Business Solutions, 1208 Falls Street, Jonesboro, AR 72401, as the publisher of the Journal. Roger Williams can be reached via office (1.800.442.2108) phone. His on-line address, www.prinformance.com, can be accessed for purchasing CDs and PDFs of Journal articles. Volume 61 encompassed a total of 146 pages and included 16 feature articles and 7 general notes. A total of 195 copies were produced at a cost of \$8,196.84. I provided revised manuscripts to the Williams' publishing team (BBS) via CDs and hard copies from early October to late December, 2007. PDFs were generated for each accepted manuscript by Jeremy Baker of BBS and provided to me from late January to early March, 2008. The submission of the PDFs as galley proofs greatly expedited the editing process. The final galley proof of the Journal was printed during the first week of April. I received Volume 61 on April 7, 2008. Address labels for current membership were placed on copies April 9.

As I depart the Editor-in-Chief's position, I wish to thank all AAS officers and the general membership for supporting my efforts over the years to produce the highest quality journal possible. It has truly been a memorable experience. I especially want to thank Joy Trauth for her dedication as the Assistant Editor. She read EVERY MANUSCRIPT published during the past 15 years. She can also be credited with a majority of the work related to updating the recent Instructions for Authors and Publications Policies for the Journal. And finally, I request that the AAS continue support of \$600 for the Editorial Assistant position and \$200 to the Editor-in-Chief for assorted publishing expenses with \$700 for the Managing Editor.

8. Journal (JAAS) Managing Editor: Chris T. McAllister: There were 29 manuscripts submitted (for comparison 37 were submitted last year, a decrease of 22%) for consideration of publication in volume 61 (2007) of the JAAS at the ATU-

Russellville meeting in April 2007. Not all papers were sent out for review. Three papers (10%) fell under the category of Science Education and returned to author(s) with a friendly explanation letter stating that JAAS currently doesn't publish these types of papers. Both Managing Editor and Editor-in-Chief were in agreement on this matter.

Twenty-six papers were sent out in early summer to reviewers and Assoc. Editors and returned between July-September 2007. There was some tardiness in getting back a couple of reviews, as usual. A couple of reviewers did not send back a review at all so one of the Editors served as a reviewer. However, the review process proceeded nicely and papers were processed in a timely manner, much better and faster than in years past!—isn't that the way it is supposed to be in your last year of editorship? An Asst. Editor read mss. for style, grammar, format, etc. Authors were then contacted via letter by me in August or September 2007 as to whether their paper was accepted tentatively and needed minor or major revision or whether their paper was outright rejected. Of the papers sent out for peer review, two (8%) were outright rejected. There were several that required little revision (minor revision) while others required major revisions. In two cases, one reviewer suggested rejection while the other suggested either minor or major revision. In those cases, the Managing Editor made the call to accept those papers pending major revision. Three papers originally submitted as feature articles were suggested to reduce them to general notes. Authors were asked to turn the revision around in 48-72 hours, and send back to Dr. Trauth, Editor-in-Chief, by late September, preferably by overnight mail. As noted, two papers were outright rejected. These did not report any new information or were in need of additional supportive data. All reviewers noted this important necessity and I concurred. In the end, they simply did not report any new or publishable data. During Jan-Feb. 2008, I received PDF's of papers to be published in the journal. I made initial corrections and forwarded them on to authors for their revisions/corrections. Authors were asked to make a quick turnaround and send that on to Dr. Trauth within 48-72 hrs. Two authors never sent PDF's to Stan for processing. Stan Trauth received corrected PDF's from authors and made final corrections before forwarding those on to the printer in Jonesboro. See volume 61 of the JAAS for a breakdown of papers published.

Arkansas Academy of Science

Thanks to the following Associate/Assistant Editors for their help in processing mss for volume 61: Dr. Robert Engelken, ASU, Dr. Joy Trauth, ASU, (and 46 anonymous reviewers!)

I want to thank everyone for their support during my tenure (2003-2007, volumes 57-61) as Managing Editor of JAAS. It has been a pleasure working as a two-man editorial "team" with Stanley Elwood Trauth and I am glad to have been of service to the Academy during this time. This meeting is especially important as my initial membership in AAS was 30 years ago in 1978.

9. Arkansas Science Fair Association: Mark Bland: The State Science Fair was held April 4-5, 2008 at UCA with 222 students from 28 different H.S. registering to present 209 projects evaluated by 60 judges. A summary listing of awards in each category was presented to the Academy. A request of \$400 to support student awards was made on behalf of the State Science Fair Association.
10. Junior Academy of Science: Nolan Carter: The time frame of our two meetings makes logistics a bit difficult to coordinate having the AJAS winner present, since the AJAS winner is selected less than one week prior to the AAS meeting. A permanent time slot should be reserved in the future at each annual AAS meeting for this purpose. I could talk to the first place winner at the AJAS awards ceremony to make arrangements. If the first place finisher is unable to present, I would give the opportunity to the second or third place finisher. The AJAS award winner should receive an invitation from the AAS president each year.
11. Arkansas Science Talent Search: Will Slaton: no report
12. Junior Science and Humanities Symposium: Linda Kondrick: The 42nd Arkansas Junior Science and Humanities Symposium is scheduled for March 14, 15, and 16, 2008. We are once again asking for a pledge of support from the Arkansas Academy of Science in the amount of \$100.00

The National JSHS Office supports five students and the director to attend the National JSHS program, which will be held April 30 - May 4, 2008 in Orlando, Florida. Because of the generosity of our local contributors, like AAS, Arkansas is able to send a sixth delegate to this

informative and inspirational five-day program. Our students always come home with a new vision for the opportunities that await them in a science, math, and engineering careers.

The support of the Arkansas Academy of Science has also encouraged the presentation of original research in poster format at the regional symposium held at ATU. Because of your support we are able to offer small cash awards for up to 12 winners in our research poster session. This event encourages many more students to participate in the three-day symposium and all of its educational activities than would otherwise attend.

Thanks again to the AAS for help in making Arkansas JSHS an unqualified success year after year. We are counting on your continued support of this very fine program that encourages and rewards science students and teachers here in Arkansas.

13. Committee Reports: Biota Committee: Doug James: I have finally found a graduate student who seems likely to stick with the project, which involves inspecting and making corrections needed on the scanned version of Leo's hard copies of the lists. A former student of mine did all the scanning and cleaned up 12 lists. The present student wants to work over the summer. We have made arrangements with the web master for the Department of Biological Science, University of Arkansas, to install the lists on the departmental home page. The 12 lists indicated above will be there by the end of May 2008. All 49 of Leo's lists will be there by the end of summer 2008.

I still have \$234 left from the appropriation the Academy gave the Biota Committee some time ago, used for funding the progress to date. This may be enough to cover the rest of the lists, but I am not sure. If possible, an added \$200 would be welcomed. Any sums remaining would be used to insert the two or three new lists that have been submitted, and of course in recent years there have been new list and revised lists published the Journal. These have to be processed too.

The scheme is to get everything on the web and contact the various experts who first submitted the lists to inspect them for accuracy and currency. This activity will require use of the funds to make revisions.

Secretary's Report

I'm making a stab at how to title the list on the web page. My preliminary attempt is as follows.

The Arkansas Academy of Science
ARKANSAS BIOTA SURVEY

A project initiated by and now dedicated to the late
Leo J. Paulissen

Present Curator: Douglas A. James
Department of Biological Sciences
University of Arkansas
Fayetteville, AR 72701
Tel: 479-575-6364
Fax: 470-575-4010
E-mail: djames@uark.edu

The Biota Survey consists of a collection of checklists of biotic taxa occurring in Arkansas.

- a. Development Committee: Betty Crump: The development committee reported on issues and ideas they have for two major goals, 1) recruitment and membership in the AAS, 2) increasing annual funding to support new initiatives and seek sponsorship opportunities. In addition a check for \$1,000 was presented to the AAS from the Ouachita National Forest towards continued development of the AAS, with a commitment of \$1,000 annually (as their budget allows). More institutional sponsors are solicited.
- b. AAAS: Mostafa Hemmati reported that 4 students benefited from memberships to the AAAS, 2 H.S. and 2 college students received 1 year memberships on behalf of the Academy and will receive certificates as well as Science magazine.
14. New Business:
 - a. The entire contents of all previous editions of the JAAS have now been completely scanned under the initiative of Collis Geren and the UA library with a special recognition to Judy Ganson.
 - b. The JAAS Editor-in-Chief and Managing Editor jobs are going to be directed by Mostafa Hemmati, Ivan Still and Jeff Robertson for the upcoming journal. It is anticipated that Ivan Still and other players to be named later will handle managing editor duties as co-editors with Ivan Still eventually taking command as Editor-in-Chief. Mostafa Hemmati presented the new author instructions that will facilitate e-publishing and reduce the journal publication costs. A vote of

confidence in publishing the journal this year was given to Mostafa Hemmati by the membership.

- c. The announced dates of the 93rd Annual meeting as April 3-4, 2009 on the University of the Ozarks campus in Clarksville, Arkansas. Locations for 2010 (April 9-10) and beyond are solicited. Did someone say UACCB? Or perhaps there was an "amen" in the back from UALR?
- d. An annual budget (not including costs directly associated with JAAS publication and the Annual Meeting expenses) was presented to the membership and approved. This included \$4,150 for:

I. Sponsored Student Awards for AAS affiliations

1. Arkansas Science Talent Search (Will Slaton) \$150
2. Arkansas State Science Fair Association (Mark Bland) \$ 400
3. Arkansas Academy of Science annual meeting student awards \$1,400
4. Arkansas Junior Academy (Nolan Carter) \$250
5. Junior Science and Humanities Symposium (Linda Kondrick) \$100

II. Correspondences:

1. JAAS Managing Editor and Associate Editors \$500
2. Editor-in-Chief and Editorial Assistant \$800
3. Secretary \$200
4. Newsletter \$100

III. Miscellaneous

1. Biota Committee \$200
2. Treasurer (tax preparation) \$100

TOTAL \$4,200

- e. AAS adopted the statement on evolution by AAAS that is posted on our website.
- f. President asked that the AAS be more involved in consulting and being available to the legislature when and where appropriate.
- g. Resolutions for the annual meeting were read to the membership (see Resolutions).
- h. A motion to modify the publication guidelines of the JAAS to include Science Education Research was presented, discussed and tabled. Executive Committee to discuss the particular paper rejected

Arkansas Academy of Science

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|--|---|---|-------------------|---|-------------------|---|-------------------|-------------------------------------|-------------------|--------------|--|
| <p>this year at fall meeting and present motion at next spring meeting for full discussion.</p> <p>15. Awards were presented to Joy and Stan Trauth for their years of service with the JAAS, to Henry Robison for his 25 years as Historian and to outgoing President Collis Geren.</p> <p>16. Closing: New president Joyce Hardin accepted the ceremonial gavel from outgoing president Collis Geren making him Past-president, Scott Kirkconnell President-elect and Jeff Robertson Vice-president.</p> <p>Meetings adjourned.</p> <p>Jeff Robertson, AAS Secretary</p> | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Unrestricted Bank of the Ozarks, Russellville, AR Maturity Date 5-12-09</td> <td style="text-align: right; vertical-align: top;">\$6,397.71</td> </tr> <tr> <td>Short Term CD Bank of the Ozarks, Russellville, AR, 10-1-08 Maturity Date 1-27-09</td> <td style="text-align: right; vertical-align: top;">\$4,082.53</td> </tr> <tr> <td>Short Term CD Bank of the Ozarks, Russellville, AR, 10-1-08 Maturity Date 2-27-09</td> <td style="text-align: right; vertical-align: top;">\$9,025.69</td> </tr> <tr> <td>Combined Interest (October 1, 2008)</td> <td style="text-align: right; vertical-align: top;">\$1,205.76</td> </tr> <tr> <td colspan="2" style="border-top: 1px solid black; text-align: right;">Total</td> </tr> </table> | Unrestricted Bank of the Ozarks, Russellville, AR Maturity Date 5-12-09 | \$6,397.71 | Short Term CD Bank of the Ozarks, Russellville, AR, 10-1-08 Maturity Date 1-27-09 | \$4,082.53 | Short Term CD Bank of the Ozarks, Russellville, AR, 10-1-08 Maturity Date 2-27-09 | \$9,025.69 | Combined Interest (October 1, 2008) | \$1,205.76 | Total | |
| Unrestricted Bank of the Ozarks, Russellville, AR Maturity Date 5-12-09 | \$6,397.71 | | | | | | | | | | |
| Short Term CD Bank of the Ozarks, Russellville, AR, 10-1-08 Maturity Date 1-27-09 | \$4,082.53 | | | | | | | | | | |
| Short Term CD Bank of the Ozarks, Russellville, AR, 10-1-08 Maturity Date 2-27-09 | \$9,025.69 | | | | | | | | | | |
| Combined Interest (October 1, 2008) | \$1,205.76 | | | | | | | | | | |
| Total | | | | | | | | | | | |

ARKANSAS ACADEMY OF SCIENCE 2009 FINANCIAL STATEMENT October 15, 2008

| | | |
|-----------------------------------|--------------------|--|
| Balance – October 15, 2008 | \$53,787.07 | |
| Balance – January 2, 2008 | \$43,000.06 | |
| | \$10,787.01 | |
| Net Gain | \$10,787.01 | |

DISTRIBUTION OF FUNDS

| | | |
|--|--------------------|--|
| Checking Account Bank of the Ozarks, Russellville, AR, 10-1-08 | \$5,283.60 | |
| Certificate of Deposit | | |
| Life Membership Endowment, Bank of the Ozarks, Russellville, AR, 10-1-08 Maturity Date 11-11-09 | \$14,431.03 | |
| Dwight Moore Endowment Bank of the Ozarks, Russellville, AR, 10-1-08 Maturity Date 8-11-08 | \$5,896.74 | |
| Phoebe and George Harp Endowment Bank of the Ozarks, Russellville, AR, 10-1-08 Maturity Date 5-12-09 | \$7,464.01 | |

INCOME:

| | |
|---|--------------------|
| 1. ANNUAL MEETING | \$3,148.11 |
| 2. ENDOWMENT | \$100 |
| 3. GIFT RECEIVED | |
| a. Betty Crump | \$50 |
| b. USDA Sponsorship | \$1,000 |
| | \$1,050 |
| 4. INTEREST | |
| (Interest Earned Year to Date, October 1, 2008) | |
| a. Checking Account | \$4.09 |
| b. CD (added to the Checking) | \$85.14 |
| c. CD | \$403.98 |
| d. CD | \$199.18 |
| e. CD | \$222.71 |
| f. CD | \$190.89 |
| g. CD | \$74.08 |
| h. CD | \$25.69 |
| | \$1,205.76 |
| 5. JOURNAL | |
| a. Subscription (40 copies) | \$2,000 |
| b. Page Charges | \$12,966.67 |
| | \$14,966.67 |
| 6. JOURNAL CONTRIBUTION | \$200 |

Secretary's Report

7. MEMBERSHIP

| | |
|---------------|-------------------|
| a. Associate | \$15 |
| b. Individual | \$2,240 |
| c. Life | \$375 |
| d. Sustaining | \$35 |
| | \$2,665.00 |

8. MISCELLANEOUS INCOME

| | |
|----------------------------|----------------|
| a. Check from David Davies | \$74.24 |
|----------------------------|----------------|

| | |
|---------------------|--------------------|
| TOTAL INCOME | \$23,409.78 |
|---------------------|--------------------|

EXPENSES**1. STUDENT AWARDS**

| | |
|---------------------|----------------|
| a. Paul Minor | \$100 |
| b. Jason Robison | \$50 |
| c. Jerakaycia Boman | \$50 |
| d. Allan Thomas | \$100 |
| e. Allicia Kelog | \$100 |
| f. Jerred Caskey | \$50 |
| g. Brian Caldwell | \$100 |
| h. Jacy Wagnon | \$50 |
| i. Lauren Blair | \$50 |
| j. Nicole Freeman | \$100 |
| k. April Helms | \$50 |
| l. Michael Gilbert | \$50 |
| m. Tiffany Whitsitt | \$100 |
| n. Nathan Wentz | \$50 |
| o. Russell Cline | \$50 |
| p. Wes Greer | \$25 |
| q. Karen Vale | \$50 |
| | \$1,125 |

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 | \$150 |
| | \$900 |

3. JOURNAL EXPENSES

| | |
|---|--------------------|
| a. Journal Expenses – Stan Trauth | \$200 |
| b. Vol. 61 Printing Cost | \$8,196.84 |
| c. Journal Mailing Cost – ATU | \$142.60 |
| d. Journal Digitalization Cost | \$4,540 |
| e. Journal Editorial Cost | \$800 |
| f. Journal Mailing Cost, Jeff Robertson | \$25.25 |
| | \$13,904.69 |

| | |
|----------------------|----------------|
| 4. NEWSLETTER | \$57.81 |
|----------------------|----------------|

5. MISCELLANEOUS EXPENSES

| | |
|------------------------------------|-----------------|
| a. Total Cost of Five Plaques | \$244.17 |
| b. Mailing Cost | \$15.06 |
| c. Annual Dues, National Academies | \$64.10 |
| | \$323.33 |

| | |
|--|----------------|
| 6. TRANSFER TO CD (\$9,000 - \$5,000) | \$4,000 |
|--|----------------|

| | |
|-----------------------|--------------------|
| TOTAL EXPENSES | \$20,310.83 |
|-----------------------|--------------------|

Arkansas Academy of Science

APPENDIX A

2008 AAS Presentation Award Winners

GRADUATE STUDENT AWARDS

Poster Awards

1st Place: Karen Vale / UAM
Territoriality of male swamp rabbits (*Sylvilagus aquaticus*) in southeastern Arkansas.

Oral Presentation Awards

Graduate Environmental Science

1st Place: Tiffany A. Whitsitt / UAM
Small mammal community dynamics on a wetland restoration site in southeastern Arkansas

2nd Place: Nathan J. Wentz / ASU
Mussel inventory and population status of the Federally endangered *Potamilus capax* (Green 1832) in the Tyronza River, Arkansas

Graduate Life Science

1st Place: C. Brian Caldwell / UAMS
Angiographic variations in the Circle of Willis in the New Zealand white rabbit

2nd Place: Jacy L. Wagnon / UAMS
Processed mRNA, regulated by P38 kinase and ATF/CREB proteins, is required for hotspot meiotic recombination

3rd Place: Lauren P. Blair / UAMS
Using mass spectrometry to elucidate the structure of bacteriophage T4 helicase DDA

Graduate Physical Science

1st Place: Allan Thomas / UALR
Li Doped ZnO Nanowires Grown By a Low Temperature Electrochemical Process

UNDERGRADUATE STUDENT AWARDS

Poster Awards

1st Place: Russell Cline / UCA
Thickness determination using Rutherford backscattering of alpha-particles

2nd Place: Wes Greer / UA
Creating tools to study immunity in *Candida albicans*

Oral Presentation Awards

Undergraduate Environmental Science

1st Place: Nicole Freeman / HSU
A continuing investigation into the occurrence, establishment, and biology of seven, non-native, woody angiosperms in southwestern Arkansas

2nd Place: April Helms / HSU
Effects of indigenous communities and agriculture on coral reef composition in the western Gulf of San Blas, Panama

3rd Place: Michael Gilbert / UAM
Accuracy assessment of recreational and mapping grade GPS units in three different landscapes

Undergraduate Life Science

1st Place: Allicia Kellogg / UCA
Investigating the link between trichome and prickly development in *Rubus*

2nd Place: Jerred Caskey / SAU
Cretaceous sharks of southwest Arkansas

Undergraduate Physical Science

1st Place: Paul Minor / ASU
Organic chemical bath deposition of indium (III) sulfide

2nd Place: Jason R. Robison / UALR
Computer simulation of electrodynamic screens

3rd Place: Jerakaycia D. Boman / ATU
Synthesis and characterization of hydroxyapatite biomaterials

Secretary's Report

APPENDIX B RESOLUTIONS

Arkansas Academy of Science 92nd Annual Meeting, 2008 Resolutions

Be it resolved that we, the membership of the Arkansas Academy of Science, offer our sincere appreciation to Henderson State University for hosting the 92nd annual meeting of the Arkansas Academy of Science, this year held jointly with the annual meeting of the Arkansas Undergraduate Research Conference. We thank the Local Arrangements Committee: Chair Dr. Renn Tumilson, Chair for AURC Dr. Marty Campbell, and Drs. Bray, Dunn, Engman, and Serviss; also the dedication of the webmaster, Kristen Benjamin, and support by Anna Smith and all of the student workers and staff, who collectively contributed to such a successful meeting. Appreciation is expressed for the use of these superior meeting facilities at Henderson State University, and the hospitality shown to us by HSU personnel. We especially thank our Keynote Speaker, Dr. Jeremy B. C. Jackson for his engaging keynote address which could have had the title, "The Triumph of Britney Spears", but, in fact, was entitled "Brave New Ocean" We thank Henderson State University for its donations to the Social and Banquet, which were both excellent and thoroughly enjoyed by all. We thank HSU President Dr. Charles Dunn for hosting the AAS and his welcome.

The Academy recognizes the important role assumed by Session Chairs and expresses sincere appreciation to: Mostafa Hemmati: Physics I chair, Wray Jones: Chemistry I chair, Allen Leible: Biomedicine I chair, Thomas Smith: Botany and Aquatic Biology chair, Jeff Robertson: Physics II chair, Janice O'Donnell: Chemistry II chair, Chris Guyer: Vertebrate Zoology and Environmental Science chair, J. D. Swanson: Botany II chair, Daniel Bullock: Physics III chair, Brett Serviss: Chemistry III chair, Troy Bray: Invert. Zool I chair, Henry Robison: Vert. Zool II chair, Charles Wu: Biomedicine II chair, Anwar Bhuiyan: Science potpourri chair, Henry Robison: Invert. Zool. II chair. We also recognize the contributions of the Judges who facilitate student participation and awards, in particular Brett Serviss, coordinator of judging and awards determinations who directed the efforts of judges Mohammed Akhter, Floyd Beckford, Betty Crump, Jim Duke, Maralea Gourley, Joyce Hardin, Shahidul Islam, Salomon Itza, Grover Miller, Jeff Robertson, and Benjamin Rowley.

We gratefully acknowledge the various directors of the science and youth activities which are supported or supervised by the Academy: Betty Crump, Development; Tillman 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 Symposium. We wish to thank all those who served as directors at Regional Science Fairs and Junior Academy Meetings.

We very much appreciate Jeff Robertson for maintaining the Academy website.

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. We thank the Arkansas Environmental Federation for supporting the student competition.

The continued success of the Academy is due to its strong leadership. We offer sincere thanks to our officers for another excellent year: Collis Geren (President), Joyce Hardin (President-Elect), Scott Kirkconnell (Vice-President), David Saugey (Immediate Past-President), Stan Trauth (Past-President), Jeff Robertson (Secretary), Mostafa Hemmati (Treasurer), Stan Trauth (Journal Editor-in-Chief), Chris McAllister (Journal Managing Editor), Jeff Robertson (Newsletter Editor), and Henry Robison (Historian).

Respectfully submitted this 12th day of April, 2008.

Resolution Committee
Scott Kirkconnell, AAS Vice President
Renn Tumilson, Local Organizing Chair
Jeff Robertson, AAS Secretary

Arkansas Academy of Science

2008-2009 MEMBERSHIP

LIFE MEMBERS

REGULAR MEMBERS

| FIRST MI. | LAST NAME | INSTITUTION | FIRST MI. | LAST NAME | INSTITUTION |
|------------|-------------|---|-----------|-----------------|---|
| Edmond J. | Bacon | University of Arkansas-Monticello | Alois | Adams | University of Arkansas-Little Rock |
| Vernon | Bates | Ouachita Mountains Biological Station | Ginny | Adams | University of Central Arkansas |
| Floyd | Beckford | Lyon College | Reid | Adams | University of Central Arkansas |
| Wilfred J. | Braithwaite | University of Arkansas-Little Rock | Mohammad | Akhter | Arkansas State University-Mountain Home |
| Calvin | Cotton | Geographics Silk Screening Co. | Jennifer | Akin | Arkansas Natural Heritage Commission |
| Betty | Crump | Ouachita National Forest | Scott | Austin | University of Central Arkansas |
| James | Daly | University of Arkansas for Medical Sciences | Brent | Baker | University of Arkansas Herbarium |
| Mark | Draganjac | Arkansas State University | Ben | Barridge | North Arkansas College |
| Jim | Edson | University of Arkansas at Monticello | Earl | Benjamin | Arkansas State University |
| Daniel R. | England | Southern Arkansas University | Ellis | Benjamin | Arkansas State University |
| Kim | Fifer | University of Arkansas for Medical Sciences | Dan | Bullock | Arkansas Tech University |
| Linda | Gatti-Clark | Hendrix College | Anwar | Bhuiyan | Arkansas Tech University |
| Collis | Geren | University of Arkansas-Fayetteville | Lisa | Brennan | Arkansas Tech University |
| Anthony | Grafton | Lyon College | Tom | Buchanan | University of Arkansas-Ft. Smith |
| Ronald | Javitch | Natural History Rare Book Foundation | Daniel | Bullock | Arkansas Tech University |
| Scott | Kirkconnell | Arkansas Tech University | Debra L. | Burris | University of Central Arkansas |
| Roger | Koeppe | University of Arkansas-Fayetteville | Martin | Campbell | Henderson State University |
| Roland | McDaniel | FTN Associates | Stephen | Chordas III | Ohio State University |
| Grover | Miler | University of Arkansas for Medical Sciences | Mari | Davidson | University of Arkansas for Medical Sciences |
| Dennis | Richardson | Quinnipiac College | Steve | Dinkelacker | University of Central Arkansas |
| Jeff | Robertson | Arkansas Tech University | Eddie | Dry | Arkansas State University - Mountain Home |
| James H. | Fribourgh | University of Arkansas-Little Rock | Andrea | Duina | Hendrix College |
| Arthur | Fry | University of Arkansas-Fayetteville | Rudolph | Eichenberger | Southern Arkansas University |
| John | Giese | Ark. Dept. of Env. Qual. (ret) | James | Engman | Henderson State University |
| Walter | Godwin | University of Arkansas-Monticello | Karen | Fawley | University of Arkansas at Monticello |
| Joe M. | Guenter | University of Arkansas at Monticello | Marvin | Fawley | University of Arkansas at Monticello |
| Joyce | Hardin | Hendrix College | Robert | Ficklin | University of Arkansas at Monticello |
| George | Harp | Arkansas State University | Thomas | Foti | Arkansas Natural Heritage Commission |
| Phoebe | Harp | Arkansas State University | Tobin | Fulmer | Arkansas Natural Heritage Commission |
| Gary | Heidt | University of Arkansas-Little Rock | Umadevi | Garimella | University of Central Arkansas |
| Mostafa | Hemmati | Arkansas Tech University | Barry | Gehm | Lyon College |
| Douglas | James | University of Arkansas-Fayetteville | David | General | University of Arkansas at Monticello |
| Arthur | Johnson | Hendrix College | Johnnie | Gentry | University of Arkansas-Fayetteville |
| Cindy | Kane | University of Arkansas for Medical Sciences | Sherry | Gibbany | North Arkansas College |
| Donald | Mattison | March of Dimes National Office | Fiona | Goggin | University of Arkansas-Fayetteville |
| Herbert | Monoson | Ark. Science & Technology Authority | Wilson | González-Espada | Arkansas Tech University |
| James | Peck | University of Arkansas at Little Rock | Wayne | Gray | University of Arkansas for Medical Sciences |
| Michael | Rapp | University of Central Arkansas | Roberts | Gregerson | Lyon College |
| Henry | Robison | Southern Arkansas University | Frank | Hardcastle | Arkansas Tech University |
| David | Saughey | U.S. Forest Service | Laurence | Hardy | Ouachita Mountains Biological Station |
| Stanley | Trauth | Arkansas State University | Philip | Hyatt | retired |
| Gary | Tucker | FTN Associates | Shahidul | Islam | University of Arkansas at Pine Bluff |
| Renn | Tumlison | Henderson State University | Salomon | Itza | University of the Ozarks |
| James | Wickliff | University of Arkansas-Fayetteville | Clark | Jenkins | North Arkansas College |
| Robert | Wiley | University of Arkansas-Monticello | George | Johnson | Arkansas Tech University |
| Scott | White | Southern Arkansas University | Abul | Kazi | University of Arkansas at Pine Bluff |
| Steve | Zimmer | Arkansas Tech University | Brent | Kelley | Audubon Arkansas |
| | | | Julia | Kennefick | University of Arkansas-Fayetteville |
| | | | Tillman | Kennon | Arkansas State University |
| | | | Robert | Kissell | University of Arkansas at Monticello |
| | | | Jeanne | Kuhler | Auburn University |

Secretary's Report

REGULAR MEMBERS

| FIRST MI. | LAST NAME | INSTITUTION |
|-----------|--------------|---|
| Ryan | Laddusaw | University of Arkansas /Medical Sciences |
| Janet | Lanza | University of Arkansas at Little Rock |
| Eric | Lovely | Arkansas Tech University |
| Mike | Matthews | Henderson State University |
| Chris | McAllister | Chadron State College |
| Malcolm | McCallum | TAMU-Texarkana |
| Rahul | Mehta | University of Central Arkansas |
| Matthew | Moran | Hendrix College |
| William | Moser | Smithsonian Institution |
| Jim | Musser | Arkansas Tech University |
| Lawrence | Mwasi | University of Arkansas at Pine Bluff |
| Alex | Nisbet | Ouachita Baptist University |
| Russell | Nordeen | University of Arkansas at Monticello |
| National | Park | Buffalo National River |
| Forrest | Payne | University of Arkansas at Little Rock |
| John | Rhine | "ATOKA, Inc." |
| Thomas | Risch | Arkansas State University |
| Ed | Roberts | Pottsville High School |
| Fred | Robinson | Ouachita Mtns. Biological Station |
| Benjamin | Rowley | University of Central Arkansas |
| 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 |
| Michael | Slay | The Nature Conservancy |
| Richard | Smith | University of Arkansas for Medical Sciences |
| Thomas | Smith | Southern Arkansas University |
| Ashley | Scott | University of Arkansas-Little Rock |
| Richard | Standage | USDA Forest Service |
| Ivan H. | Still | Arkansas Tech University |
| Philip A. | Tappe | University of Arkansas- Monticello |
| Bruce | Tedford | Arkansas Tech University |
| Lynne | Thompson | University of Arkansas- Monticello |
| Sherry | Townsend | North Arkansas College |
| Rick | Ulrich | University of Arkansas-Fayetteville |
| Curtis | VanderSchaaf | University of Arkansas Monticello |
| Deborly | Wade | Central Baptist College |
| Brian | Wagner | Arkansas Game and Fish Commission |
| Timothy | Wakefield | John Brown University |
| Robert | Weih | University of Arkansas-Monticello |
| Benjamin | Wheeler | UACC - Batesville |
| Linda | Williams | University of Arkansas for Medical Sciences |
| Marisa | Williams | University of Arkansas-Fayetteville |
| Ed | Wilson | Harding University |
| Joe | Winstead | Southern Arkansas University |
| Theo | Witsell | Arkansas Natural Heritage Commission |
| Tsunemi | Yamashita | Arkansas Tech University |
| Steve | Yanoviak | University of Arkansas-Little Rock |
| Douglas | Zollner | The Nature Conservancy |

SPONSORING AND SUSTAINING MEMBERS

| FIRST MI. | LAST NAME | INSTITUTION |
|------------|-----------|---|
| Linda | Kondrick | Arkansas Tech University |
| Warren | Montague | USDA/Forest Service |
| David | Davies | University of Arkansas for Medical Sciences |
| Leo Carson | Davis | Southern Arkansas University |

STUDENT MEMBERS

| FIRST MI. | LAST NAME | INSTITUTION |
|------------|------------|---|
| 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 |
| Jerred | Caskey | Southern Arkansas University |
| 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 |
| 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 |
| 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 |