

2022

## Business Meeting Report (Secretary's and Treasurer's Report)

Academy Editors

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## ARKANSAS ACADEMY OF SCIENCE

<b>Todd Tinsley</b> President	<b>Jeff Shaver</b> President-Elect	<b>Sharon Hamilton</b> Vice-President	<b>Stephen Addison</b> Past President	<b>Stephen Addison</b> Secretary
<b>Andrew Sustich</b> Treasurer	<b>David McClellan</b> JAAS Editor-in-Chief	<b>David McClellan</b> JAAS Managing Editor	<b>Rami Alroobi</b> Webmaster	<b>Abdel Bachri</b> Historian
	<b>R. Panneer Selvam</b> Newsletter Editor		<b>Stephen Addison</b> Undergraduate grants	

**ARKANSAS ACADEMY OF SCIENCE**  
**105<sup>th</sup> Annual MEETING MINUTES**  
 Zoom Meeting Hosted by OBU  
**April 2, 2022 – 11:30 a.m.**

Meeting called to order at 11:30 am CDT by President Andrew (Andy) Sustich.

### 1. Secretary's Report: Stephen Addison

The minutes of the previous year's meeting will be available to the membership in the current year journal. Any corrections should be sent to the secretary.

Current membership is 113 of which 55 are life members while 58 are annual memberships.

Henry W. Robison was nominated to become a Fellow of the Arkansas Academy Science. The materials were distributed to almost 300 people a vote will take place later in the meeting.

Members are reminded they can nominate potential fellows or honorary fellows up to October 1 of the year prior to their initial consideration. Those nominations should be to the secretary. The membership will vote on the nominees at the spring meeting. Those approved will be awarded the following year.

The Academy has had plaques prepared for Sharon Hamilton and Andrew Sustich, for their service to the Academy. Plaques were also prepared for those elected as fellows at last year's meeting

### 2. Treasurer's Report: Andrew Sustich

2021 Financial Statement, December 9, 2021.

<b>Balance—December 9, 2021</b>	<b>\$161,517.27</b>
<b>Balance—December 9, 2020</b>	<b><u>\$164,264.61</u></b>
<b>Net Gain</b>	<b>-\$2,747.43</b>

### **DISTRIBUTION OF FUNDS (as of Dec. 9, 2021)**

Checking Account, Arvest Bank	\$12,994.18
PayPal Account	\$37.81
Certificate of Deposit 1, Arvest Bank (Includes Phoebe and George Harp Endowment)	\$53,531.04
Certificate of Deposit 2, Arvest Bank	\$53,531.04
Certificate of Deposit 3, Arvest Bank	<u>\$41,423.11</u>
<b>TOTAL DISTRIBUTION OF FUNDS</b>	<b>\$161,517.18</b>

### **INCOME (as of Dec. 9, 2021)**

#### INTEREST

Checking Account, Arvest Bank	\$0
CD1, Arvest Bank	\$80.22
CD2, Arvest Bank	\$80.22
CD3, Arvest Bank	<u>\$62.08</u>
Total, Interest	\$222.52

#### JOURNAL

Page Charges	\$4,800.00
Subscription, University of Arkansas	<u>\$300.00</u>
Total, Journal	\$5,100.00

#### MEMBERSHIP

Individual/Associate	\$955.00
Individual collected at meeting	\$0
Institutional	<u>\$1,000.00</u>
Total, Membership	\$1,920.00

#### MEETING INCOME

\$0

#### MISCELLANEOUS INCOME

Unspent/Returned UG Awards	\$0
Gifts: PayPal Charitable Giving Fund	<u>\$13.00</u>
Total, Miscellaneous Income	\$13.00

<b>TOTAL INCOME</b>	<b>\$7,290.52</b>
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## Arkansas Academy of Science Business Meeting Report

Todd Tinsley and Stephen Addison provided the audit report, with Todd Tinsley informing the meeting of the results. The records were found to be accurate and true.

### 3. **Editor-in-Chief Report: Ivan Still**

#### **Summary**

1. Processing of Volume 75 has proceeded as usual. Naturally number of manuscripts submitted was down compared to a normal year.
2. Downloads of manuscripts from the Journal website are up YOY by 27%.
3. U of A has set up DOIs for Journal manuscripts: this will allow application for inclusion in SCOPUS.
4. Presentation made in September NAAS Academy Chats (albeit not in person).
5. Dr. David McClellan (UAFS) was proposed by Dr. Ragupathy Kannan to take over from me in at least one of my positions.

#### **Volume 75**

Eighteen manuscripts were submitted for consideration of publication in volume 75 (2021) of the JAAS. These manuscripts included 16 Articles, and 2 General notes, all being submitted by the electronic manuscript submission process on the Journal website.

By the beginning of May, manuscripts were checked for style, grammar, format, etc., to ensure compliance with the "Instructions to Authors". Correction had to be made to a few manuscripts at this stage. I handled a Nursing Education paper and one Physical Science paper, while Doug Barron handled 5 Avian Biology papers, and Christina Blanco handled 4 Vertebrate Biology papers. Newly recruited as Associate Editor of Physical Science, Amber Harrington handled 2 Physical Science papers and Dr. David Bowles (Missouri State University, retired) our new Invertebrate zoology Associate Editor handled 5 Invertebrate papers. Manuscripts were sent out electronically for review by the middle of June.

Authors were informed if their paper was accepted with the need for minor or major revision or whether their paper was rejected in July/August. Authors were asked to return their revisions to their handling editor via Scholarworks by August 31, with the page charges submitted directly to Andy Sustich. One manuscript was rejected at review. Two manuscripts required "major" corrections that

resulted in the final decisions on the manuscripts being put off until September (when I was called away to the UK for a family emergency): one of these manuscripts did not address reviewers' concerns and was subsequently rejected.

Volume 75 is 130 pages long, including cover pages and was published electronically early in January 2022.

I would like to thank the reviewers and Associate Editors, for their help in the preparation of volume 75.

#### **Readership Report**

Download statistics for the on-line journal were: 66,899 downloads since the last Annual meeting, and 227,127 total downloads since being on Scholarworks from a total of 2,385 works in the journal. Downloads are up Year on Year by about 27%. A total of 3598 Institutions from 181 countries downloaded JAAS articles in the past year; top downloading countries: USA, India, the Russian Federation and the UK.

#### **DOIs and Indexing of the Journal**

The matter of increased visibility of the Journal continually crops up as databasing and integration technology changes. The readership reports are distinctly encouraging regarding the Journal's global reach in real terms, with the major referrer coming from Google searches.

We are indexed in the Directory of Open Access Journals and were in SHERPAv1 databases, and accessible from Google Scholar. SHERPA is essentially DOAJ for International recognition. The Journal was left out of the recent SHERPA v2 update, so I reapplied for inclusion of the Journal. I received a Ticket but am waiting for feedback on inclusion (probably COVID slow down issues). This will need to be looked at by the incoming Managing Editor.

I was able to bring up the addition of DOIs to the Journal manuscripts with Cedar Middleton and Melody Herr (Head, Office of Scholarly Communications) over summer. This appeared to reinvigorate the idea at UARK: they had approached bepress in Feb 2020, but had not progressed further. Melody approached Angie Ohler, Associate Dean for Content and Digital Initiatives to pursue this again. The result is that after a fair amount of work, UARK has access to CrossRef and Cedar has begun to add DOIs to our Journal manuscripts, As of this report, manuscripts

going back 10 years have been assigned DOIs. Volume 75 was the first volume to have added DOIs prior to electronic release, and this will be maintained for future volumes (by Cedar Middleton at UARK).

With the addition of DOIs, we will be able to apply to SCOPUS for indexing and improved visibility (both bepress, and SCOPUS are Elsevier subsidiaries): from a preliminary check, DOIs were the only piece we were missing. I recommend that this application be done when the new Editor-in-Chief takes over after this meeting, so that the issue will not suffer communication breakdown as the reins of the editorship pass. Maintaining the jarksci@gmail.com as the journal email is important in this regard for all communications to outside bodies such as DOAJ ). The “Instructions to Authors” for Volume 76 onwards has been altered to have authors add DOIs for references in their Literature cited section (a condition of indexing).

I have included this topic in “Outstanding issues” that I have compiled for my successor(s).

#### **National Association of Academies of Science Presentation**

I was asked to present about our experience as an Open Access journal at the Academy Journal “Academy Chat” meeting held online on September 17. The meeting aimed to bring together Journal editors from State Academies of Science, with 8 other States ultimately represented in the meeting. Unfortunately I had to leave for the UK the week of the meeting and thus was only able to send in a powerpoint on our Journal. The meeting can be accessed from the NAAS Academy Chats site: [https://www.academiesofscience.org/academy\\_chat\\_s.php](https://www.academiesofscience.org/academy_chat_s.php).

As a summation of the meeting: we appear in relative good shape with regular production of the Journal, considering the size of the State and the current membership. It would appear that Academies are generally experiencing a decrease in membership (an issue dealt with in another Academy Chat), decrease in submissions to the State Journals, and have an issue with recruiting reviewers for manuscripts. Solutions to these were to raise the profile of a State Academy and its Journal in general. I think that is where our Open Access policy, the move to Digital Commons during my tenure as Managing Editor/Editor-in-Chief has been a good thing (evidenced by downloads increasing YOY). Further improvement

will come with the move to employing DOIs and the subsequent indexing in SCOPUS (to be handled by my successor). Increased promotion of the Academy and the Journal at member Universities would also help, and I encourage all to boost visibility of the Journal and the Academy in general.

As I step down from the positions of Managing Editor and Editor-in-Chief after 14 years of involvement with the Journal, I would like to thank all those who I have worked with and the efforts that they have made to move the Journal of the Arkansas Academy of Science forward.

As Dr. Still was performing the roles of Editor in Chief and Managing Editor, no separate Managing Editor report was prepared.

#### **4. Historian’s Report: Abdel Bachri**

The spring meeting of the Arkansas Academy of Science was the 105th annual meeting of the Academy. It was held April 1-2, 2014 at Ouachita Baptist University in Arkadelphia. Dr. Sharon K. Hamilton did an admirable job in managing the meeting for the AAS and OBU.

As to the history of OBU hosting annual meetings, this marked the 4th time that OBU has hosted the annual meeting. The first meeting with, then Ouachita Baptist College was in 1956 for the 40th AAS meeting. The second meeting which Ouachita Baptist College hosted jointly with Henderson State College was in 1968 for the 52nd AAS meeting. The last time OBU hosted the meeting was in 1986 for the 70th annual AAS meeting.

The keynote speaker was Dr. Mary Virginia Orna, a Professor of Chemistry, Emerita, College of New Rochelle. The presentation was very impressive.

Abstracts included 57 in the life sciences, 32 in chemistry and biochemistry, and 24 in physics and engineering. Of these 23 were oral presentations in the life sciences, 13 in chemistry and biochemistry, and 9 in physics and engineering.

Ouachita Baptist University has a rich history and traditions dating back 130 years. Founded in 1886 with 235 students, Ouachita had a total of three graduates in its first commencement service in 1888. Since that time, Ouachita has grown into a leading liberal arts university with more than 1,500 students from 30 states and 30 nations.

#### **4. Website Report: Rami Alroobi**

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The AAS website is maintained by Rami Alroobi, Southern Arkansas University.

Data concerning the AAS website:

- Current access count is 15,285
- The AAS website is hosted by register.com. This relationship was renewed June 2022.
- Officer updates were posted to the AAS website July 2022.
- The JAAS Editorial Board document was updated based on a request from the Editor-in-Chief, David McClellan, November 2022.

**5. Resolutions: Jeff Shaver**

See Appendix B

**6. Nominations Committee: Stephen Addison**

Dr. Addison reminded the membership that materials for the elevation of Henry W. Robison to the grade of fellow had been distributed prior to the meeting. He noted that copies of these materials were available at the meeting if any member wished to examine them. Dr. Addison also presented the Executive Committee's recommendations for AAS Vice-President and Editor-in-Chief and Managing Editor of the Journal of the Arkansas Academy of Science. Sharon Hamilton was recommended for the position of AAS Vice-President and David McClellan was recommended for the position of Managing Editor and Editor-in-Chief. No nominations were received from the floor.

Henry W. Robison was approved for elevation to the grade of Fellow. Sharon Hamilton and David McClellan were approved for the positions for which they had been recommended. All votes were unanimous.

**7. Undergrad Research Awards: Stephen Addison**

Four applications for Undergraduate Research Awards were received by the Academy. Two awards were made. The funded proposals were:

**Erika F. Bittinger (mentor Suzanne Neidhart) Department of Chemistry and Biochemistry, Henderson State**, A proposed investigation into the thermal conductivity of dense chlorine-containing liquids. The project will involve computer simulations. Appropriate references are included. (\$850)

**Amelia G. Brister (mentor Suzanne Neidhart) Department of Chemistry and Biochemistry, Henderson State**, Another proposed investigation into the thermal conductivity of dense chlorine-containing liquids. (\$850)

**8. Student Presentation Awards: Sharon Hamilton**

See Appendix A.

**9. Fellows**

The Academy had prepared plaques to recognize Mostafa Hemmati and Stanley E. Trauth upon their elevation to the grade of Fellow of the Arkansas Academy of Science. Dr. Trauth was present at the meeting to receive the award. The plaque was presented to Dr. Trauth by Stephen Addison. Those present joined Dr. Addison in congratulating Dr. Trauth for his achievements.

**10. Transition: Andrew Sustich**

At this point, Andrew Sustich passed the gavel of the Arkansas Academy of Science to incoming President Todd Tinsley.

**11. Meeting Adjourned**

The 2022 AAS Meetings were adjourned at 1:00 p.m.

**APPENDIX A**

**AWARD WINNERS FROM THE 105<sup>th</sup> ANNIVERSARY ARKANSAS ACADEMY OF SCIENCE  
(awardees are underlined)**

**I. ORAL PRESENTATIONS:  
OUTSTANDING UNDERGRADUATE AWARDS**

**BIOLOGICAL SCIENCES**

**Grace Tidwell**, Ouachita Baptist University.  
Presentation: Bird Diversity & Abundance in Relation to Habitat Complexity at Jack Mountain Wildlife Management Area.

**Morgan Pelley**, University of Arkansas – Fayetteville.  
Presentation: The Influence of Temperature and Body Size on Food Consumption in Prairie Lizard (*Sceloporus consobrinus*).

**CHEMISTRY / CHEMICAL ENGINEERING**

**Kayla Whittington**, Ouachita Baptist University.  
Presentation: Developing Novel Water-soluble

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Porphyrins for Potential Use as Photosensitizers in Photodynamic Therapy.

**Taylor Canada**, University of Central Arkansas. Presentation: Extracting Volatile Organic Compounds from Arkansas Honey.

**Jessica Garrett**, Arkansas Technical University. Presentation: Developing Novel Water-soluble Porphyrins for Potential Use as Photosensitizers in Photodynamic Therapy.

**PHYSICS / ENGINEERING**

**Thomas Marshall**, Harding University. Presentation: Validation of 3D Printed Stabilization of Paraffin Fuel Grains of Hybrid Rockets.

**WILDLIFE SCIENCES / ECOLOGY**

**Jimmie Harper**, Henderson State University. Presentation: A Study of Dental Pathology in River Otters (*Lontra canadensis*) in Arkansas.

**OUTSTANDING GRADUATE AWARDS**

**Allison Litmer**, University of Arkansas – Fayetteville. Presentation: Influence of Temperature on Passage Rate in *Sceloporus consobrinus*, with Comparison to Congeners.

**II. POSTER PRESENTATIONS:**

**OUTSTANDING UNDERGRADUATE AWARDS**

**ASTRONOMY**

**Hypatia Meraviglia**, University of Central Arkansas. Presentation: Determining Ni-56 Yields and Bolometric Lightcurves of Peculiar Type II-P Supernovae.

**BIOLOGICAL SCIENCES**

**Elaina John**, Harding University. Presentation: Free Radicals Promote Prolonged Activation of Epidermal Growth Factor Receptor in Murine Microglial Cells.

**Seth Curl**, Ouachita Baptist University. Presentation: Crosstalk Between Vitamin D Receptor Signaling and Glucocorticoids in Musculoskeletal Induced Atrophy.

**Taylor Barnhart**, Ouachita Baptist University. Presentation: The Effects of Light Intensity and Cell Structure on the Cultivation of *Arthrospira plantensis*.

**Melanie Joan**, Southern Arkansas University. Presentation: Assessing the Effects of Retinoic Acid on the Development of *Daphnia magna*.

**CHEMISTRY / CHEMICAL ENGINEERING**

**Joshua Spiva**, Ouachita Baptist University. Presentation: Incorporating a Bioengineered Protein and a Collagen Analog into Modern Wound Dressings.

**Emma Rouse**, Ouachita Baptist University. Presentation: The Development of a New Water-soluble Zinc Porphyrin, ZnTPP-3AP, and Its Potential as a Photodynamic Therapy Agent.

**Sidney Pigott**, Ouachita Baptist University. Presentation: The Potential Advancement of Photodynamic Therapy using a Novel Water-soluble Zinc Porphyrin, ZnTPP-5AP.

**Fernandez Cruz**, Ouachita Baptist University. Presentation: BPA Presence in Daily Use Panty Liners and Its Ability to Disrupt Normal Reproductive Functioning.

**HEALTH SCIENCES**

**Morgan Schuster**, Southern Arkansas University. Presentation: Characterizing Adeno Associated Virus Based GCaMP Transfection in Organotypically Cultured Pituitary Glands.

**PHYSICS / ENGINEERING**

**Ryan Pickelman & Adrian Salazar-Rivera**, Ouachita Baptist University. Presentation: Optimizing a Passive-tracking Solar Panel System.

**Bennett Hasley & Jimmy Castro**, Ouachita Baptist University. Presentation: Using Emitted Vibrational Frequencies to Determine Watermelon Sweetness.

**OUTSTANDING GRADUATE AWARDS**

**Abu Sayed Mohammad Akid**, Arkansas State University. Presentation: Influence of Reclaimed Fly Ash and Waste Tire Rubber as Supplementary Cementitious Materials on Properties of Concrete.

**Fares Tarhuni**, Arkansas State University. Presentation: Using of Rice Husk Ash (RHA) and Hydrated Lime as Stabilizing Agents for Poor Subgrade Soils and Embankments.

## Arkansas Academy of Science Business Meeting Report

**APPENDIX B: RESOLUTIONS**  
**Arkansas Academy of Science**  
**104th Annual Meeting, 2021 Resolutions**

Be it resolved that we, the membership of the Arkansas Academy of Science (AAS) offer our sincere appreciation to Ouachita Baptist University for hosting the 105th annual meeting of the Academy. We thank the local arrangements committee: Sharon K. Hamilton (Chair), Matt Douglass, Kevin Cornelius, Debra Coventry, Jennifer Fayard, Sara Hubbard, Jeff Matocha, Maddie Myers-Burg, Suzanne Neidhart, Christin Pruett, and Adam Wheat who supported the program and meeting arrangements listed in the AAS proceedings.

We sincerely thank Ouachita Baptist University for providing its facilities and service during the meeting.

We especially thank our keynote speaker, Dr. Mary Virginia Orna, for her informative talk.

The Academy recognizes the important role of our session chairs: Hope Murphy, Hyland Alfonso, Kyla Williams, Josh Spiva, Aidan Doss, and Aiiryel

McCoy. Sincere appreciation and gratitude is also extended to our dedicated judges for the student presentations.

We congratulate our student researchers, scientists, and engineers who presented papers and posters whose efforts contribute directly to the future success of the Academy and the improvement of advancement of science in Arkansas.

The Academy recognizes its leadership and offers its thanks to this year's set of executive officers including Andrew Sustich (President and Treasurer), Todd Tinsley (President Elect), Jeff Shaver (Vice President), Stephen Addison (Past President and Secretary), Ivan Still (Journal Editor-in-Chief and Journal Managing Editor), Panneer Selvam (Newsletter Editor), Rami Alroobi (Webmaster), and Abdel Bachri (Historian).

Respectfully submitted on this 2nd day of April, 2022. AAS Resolutions Committee.

**2021 ARKANSAS ACADEMY OF SCIENCE MEMBERSHIP**

**LIFE MEMBERS**

FIRST	LAST NAME	INSTITUTION
Steven	Addison	University of Central Arkansas
Edmond J.	Bacon	University of Arkansas-Monticello (ret.)
Vernon	Bates	Ouachita Mountains
Floyd	Beckford	Duke Kunshan University
Don	Bragg	USDA Forest Service
Calvin	Cotton	Geographics Printing Company
Betty	Crump	Ouachita National Forest
James	Daly	UAMS (retired)
Leo	Davis	Southern Arkansas University (ret.)
Mark	Draganjac	Arkansas State University
Jim	Edson	University of Arkansas-Monticello(ret.)
Kim	Fifer	UAMS
Collis	Geren	University of Arkansas-Fayetteville
John	Giese	Ark. Dept. of Env. Qual. (ret.)
Walter	Godwin	University of Arkansas-Monticello (ret.)
Anthony	Grafton	Lyon College
Joe M.	Guenter	University of Arkansas-Monticello (ret.)
Joyce	Hardin	Hendrix College
George	Harp	Arkansas State University (ret.)
Phoebe	Harp	Arkansas State University (ret.)
Gary	Heidt	University of Arkansas-Little Rock (ret.)
Mostafa	Hemmati	Arkansas Tech University (retired)
Philip	Hyatt	Arkansas Tech University (retired)
Shahidul	Islam	University of Arkansas-Pine Bluff
Cynthia	Jacobs	Arkansas Tech University
Cindy	Kane	UAMS
Ragupathy	Kannan	University of Arkansas-Fort Smith

**LIFE MEMBERS**

FIRST	LAST NAME	INSTITUTION
Scott	Kirkconnell	Arkansas Tech University (retired)
Roger	Koepe	University of Arkansas-Fayetteville (ret.)
Christopher	Liner	University of Arkansas
Roland	McDaniel	FTN Associates
Grover P.	Miller	UAMS
Mansour	Mortazavi	University of Arkansas-Pine Bluff
James	Peck	University of Arkansas-Little Rock (ret.)
Michael	Rapp	University of Central Arkansas (retired)
Dennis	Richardson	Quinnipiac College
Jeff	Robertson	Arkansas Tech University
Henry	Robison	Southern Arkansas University (retired)
Benjamin	Rowley	University of Central Arkansas
David	Saugey	U.S. Forest Service (retired)
Panneer	Selvam	University of Arkansas-Fayetteville
Ivan	Still	Arkansas Tech University (retired)
Suresh	Thallapuranam	University of Arkansas-Fayetteville
Stanley	Trauth	Arkansas State University (retired)
Gary	Tucker	FTN Associates
Renn	Tumlison	Henderson State University
Scott	White	Southern Arkansas University
James	Wickliff	University of Arkansas
Jason	Wiles	Syracuse University, NY
Robert	Wiley	University of Arkansas-Monticello (ret.)

**Arkansas Academy of Science Business Meeting Report****REGULAR MEMBERS**

FIRST	LAST NAME	INSTITUTION
Ginny	Adams	University of Central Arkansas
Meredith	Akins	University of Arkansas-Ft. Smith
Rami	AlRoobi	Southern Arkansas University-Magnolia
Chiraz	Amrine	Arkansas Tech University
Souvik	Banerjee	University of Arkansas-Ft. Smith
Doug	Barron	Arkansas Tech University
Sandhya	Baviskar	University of Arkansas-Ft. Smith
Keith	Blount	University of Arkansas-Monticello
David	Bowles	US. National Park Service
Tom	Buchanan	University of Arkansas-Ft. Smith
Joshua	Burns	University of Arkansas-Ft. Smith
Martin	Campbell	Henderson University
John	Chamberlin	Chamberlin Research, Little Rock, AR
Puskar	Chapagain	Southern Arkansas University-Magnolia
Stephen	Chordas III	Ohio State University
Rajib	Choudhury	Arkansas Tech University
Shannon	Clardy	Henderson State University
Kim	Cloud	University of Arkansas-Ft. Smith
Matthew	Connior	Northwest Arkansas Community College
Steven	Cooper	Harding University
Allyn	Dodd	Lyon College
David	Donley	Harding University
Kisa	DuBose	Arkansas Tech University
Phillip	Dukes	Southern Arkansas University-Magnolia
Eric	Fuselier	Crafton-Tull
Kristie	Garner	University of Arkansas-Ft. Smith
Abby	Geis	Arkansas College of Osteopathic Medicine
Gary	Graves	Smithsonian Institute
Jacob	Grosskopf	Arkansas Tech University
Gaumani	Gyanwali	Rich Mountain Community College
Mohammad	Halim	University of Arkansas-Ft. Smith
Sharon	Hamilton	Ouachita Baptist University
Lionell	Hewavitharana	Southern Arkansas University-Magnolia
Stacey	Hickson	Southern Arkansas University-Magnolia
Sara	Hubbard	Ouachita Baptist University
Michael	Howell	University of Arkansas-Little Rock
Jack	Jackson	University of Arkansas-Fort Smith
Kailash	Jajam	University of Arkansas-Little Rock
David	Jamieson	Crowder College
Qinglong	Jiang	University of Arkansas-Pine Bluff
Thurmond	Jordan	Audobon Society
Jeremy	Lusk	University of Central Arkansas
Eric	Lovely	Arkansas Tech University
Dave	Mayo	University of Arkansas-Fort Smith
Chris	McAllister	Eastern Oklahoma State College-Idabel
Maureen	McClung	Hendrix College
Quinn	Montana	University of Arkansas-Fayetteville
Matthew	Moran	Hendrix College
Rebecca	Mroczek	University of Arkansas-Fort Smith
Kristina	Nath	Rich Mountain Community College
Karl	Naylor	University of Central Arkansas
Henry	North	Harding University
Antoinette	Odendaal	Southern Arkansas University-Magnolia
Jennifer	Ogle	University of Arkansas-Fayetteville
Joseph	Onyilagha	University of Arkansas-Pine Bluff
Rajvardhan	Patil	Arkansas Tech University
Mike	Plummer	Harding University
Christin	Pruett	Ouachita Baptist University
Brett	Servis	Henderson State University
Jeffrey	Shaver	University of Arkansas-Ft. Smith

**REGULAR MEMBERS**

FIRST	LAST NAME	INSTITUTION
Mikel	Shinn	AR Dept Environmental Quality
Hamed	Shojaeo	Arkansas Tech University
Twanda	Simmons	Arkansas State University-Beebe
Amy	Skypala	University of Arkansas-Ft. Smith
Ryan	Stork	Harding University
Andy	Sustich	Arkansas State University-Jonesboro
Ebo	Tei	University of Arkansas-Pine Bluff
Todd	Tinsley	Hendrix College
Susanne	Wache	Southern Arkansas Community College
Daoyuan	Wang	University of Arkansas-Pine Bluff
Grady	Weston	Harding University
Matthew	White	Arkansas College of Osteopathic Medicine
Jessica	Young	Arkansas Tech University
Matthew	Young	Arkansas Tech University
Zahra	Zamanipour	Henderson State University

**STUDENT MEMBERS**

FIRST	LAST NAME	INSTITUTION
Parker	Fane	Harding University
Samantha	Gibson	University of Arkansas-Pine Bluff
Carlin	Hill	Arkansas College of Osteopathic Medicine
Grace	Hoss	Arkansas College of Osteopathic Medicine
Olivia	Loudermilk	Harding University
Kate	Main	Arkansas College of Osteopathic Medicine
Brooke	Nelson	Arkansas College of Osteopathic Medicine
Brandon	Parker	Mensch Wold Lab
Zachary	Pierce	Arkansas College of Osteopathic Medicine
Audrey	Thomas	University of Arkansas-Ft. Smith
Kyla	Wilson	John Brown University

**SPONSORING/SUSTAINING MEMBERS**

FIRST	LAST NAME	INSTITUTION
Abdel	Bachri	Southern Arkansas University-Magnolia
Shannon	Clardy	Henderson State University
Eugene	Jones	Connect4Business
Stefanie	Leacock	University of Arkansas-Little Rock
Bryan	Lockhart	
Edmond	Wilson	Harding University