

2017

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

Academy Editors

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**JOURNAL
ARKANSAS ACADEMY OF SCIENCE**

101st Annual Meeting April 7-8, 2017
University of Central Arkansas

Edmond Wilson
President

R. Paneer Selvam
President-Elect

Frank Hardcastle
Vice-President

Ann Willyard
Past President

Collis Geren
Secretary

Mostafa Hemmati
Treasurer

Mostafa Hemmati
JAAS
Editor-in-Chief

Ivan Still
JAAS
Managing Editor

Rami Alroobi
Webmaster

Kimberly Smith
Historian

R. Panneer Selvam
Newsletter Editor

Jess Kelly
Undergraduate grants

**Secretary's Report
MINUTES OF THE 101th MEETING**

**ARKANSAS ACADEMY OF SCIENCE
SPRING 2017 BUSINESS MEETING MINUTES
April 8, 2017 – 11:30 am
University of Central Arkansas, Conway**

1. The meeting was called to order at 11:31am by President Edmond Wilson.

President's Report

Can you believe that the Arkansas Academy of Science has completed its 101st year? What an honor to be a president of this wonderful organization! My chief contribution to the Arkansas Academy of Science as President is that I did no harm! My job has been so easy because of the dedicated people that comprise the Executive Committee. You will hear from most of these people as they give their reports. But I just want to tell you how professional and dedicated they are beginning with this year's host, Dr. Stephen Addison who has done a marvelous job to have a such large, smooth running meeting and wonderful speaker and banquet. Also, his staff, especially Dayna Bilderback who has been so supportive and helpful keeping up with the program and records.

I can't say too much about our Treasurer, Mostafa Hemmati. The AAS Journal used to be our biggest and most draining expense. A long time ago, David Saugey began a process in improving the journal production, then Past President Collis Geren asked the University of Arkansas Library to host the Journal. What a big advancement. Collis

recommended moving to an electronic production of the journal as originally suggested by David Saugey and gathered the various people who would make all this possible. But it was our Treasurer, Mostafa Hemmati who is also the Editor in Chief who worked out the details so that the AAS Journal is now our biggest money maker. He has some even more exciting news about the cost to tell you later.

(Holding up a copy of the Journal) This is a beautifully done Journal and it is a history of the flora and fauna of Arkansas and the geology and so many other things. Much credit is due to Ivan Still, the Managing Editor, for the quality of this magazine.

It is Kim Smith who keeps the historical record for our organization and our President-Elect Paneer Selvam who is in charge of the Newsletter.

Have you noticed the AAS Website? Rami Alroobi has done an excellent job improving the website and being so quick to make changes as they are needed.

And who would like to volunteer for Jess Kelly's job as coordinator for the Judging? I believe he is secure in his job function!

Abdel Bachri is so active in many of the State's science activities and is always present for helping at the Executive committee meetings.

Finally, I owe much to our Past President, Ann Willyard, who has helped to make my year run smoothly. Ann will be leaving us because of her taking an early retirement to take her husband to live close to their grandchildren. But don't count Ann out! She will continue her research from California.

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I would not want to fail to mention the funds that the Arkansas Academy of Science gives to support our young investigators in the State. This is something you should look into if you are interested in some funding.

Let's give a big hand of appreciation for these tireless, talented servants of the Arkansas Academy of Science!

101 year old she is! Well, we want to take a final moment to honor someone who is almost as old as the Academy itself! Dr. Doug James retired from the University of Arkansas on his 90th year last year. He has supervised the Biota contribution to the Journal for many, many years. This is such an important task and few have the knowledge in order to record all this. Let us let Doug know how much we appreciate his interest and contributions to furthering knowledge of our state and his continuing interest.

You know, Dr. James roommate in college was James Watson. Doug invited Dr. Watson to come and give a talk in the State. Dr. Watson wanted Doug to take him birding and Doug did just that. So someone asked Doug, "What do you think about your old roommate?" Doug said, "Failed Birder!"

Finally, we are very proud of the fact that AAS is able to fund these grants to students in the State to help them with their research. Jess Kelley is in charge of this project.

Our 102nd Meeting of the AAS is on April 6-7, 2018 at Arkansas State University and Dr. Andy Sustich is our host.

Let us continue our meeting.

2. Local Arrangements Committee: Steve Addison

More than 330 people registered for the meeting. 197 abstracts were received. 83 oral abstracts and 114 posters are included in the meeting book. More than half were received after the deadline for receipt. Areas of presentations included Biological Sciences, Chemistry, Physics, Engineering, Computer Science, and Geoscience.

20 universities and 10 government and other institutions were represented at the meeting.

Dayna Bilderback was an essential component for this successful meeting as well many others

3. Secretary's Report: Colis Geren

Minutes from the Executive Committee Meeting of December, 2016 minutes were reviewed and approved.

4. Treasurer's Report: Mostafa Hemmati

An accounting of the AAS for 2017 was presented and discussed by the membership. The report was reviewed by the Auditing Committee (Dr. Collis Geren and Dr. Ivan Still, who verified all calculations) (see AAS financial statement in appendix.)

5. Historian's Report: Kim Smith

This meeting at the University of Central Arkansas in Conway is the 101st annual meeting of the Arkansas Academy of Sciences. This is the 7th time that the University has hosted the Academy, the other 6 being in 1934, 1964, 1974, 1983, 1992, and 2001.

The University of Central Arkansas was founded in Conway in 1907 as the Arkansas State Normal School. As the state's only normal school at the time, UCA has historically been the primary source of teachers in Arkansas. In 1925, Arkansas State Normal School became Arkansas State Teachers College to reflect that mission. In January 1967, Arkansas State Teachers College became the State College of Arkansas. In January 1975, the State Department of Higher Education recommended State College of Arkansas be known as The University of Central Arkansas, or UCA. Today with a more academically diverse mission, UCA is noted for its nationally recognized programs in nursing, education, physical therapy, business, performing arts, and psychology and for its Honors College, one of the first in the nation.

The university comprises six colleges: the College of Fine Arts and Communication, the College of Natural Sciences and Mathematics, the College of Business, the College of Health and Behavioral Sciences, the College of Liberal Arts, and the College of Education. UCA has about 12,000 graduate and undergraduate students. The university maintains a student-to-faculty ratio of approximately 17 to 1. Over 150 undergraduate, graduate, and professional programs are offered at the university. UCA occupies over 100 buildings within its 350 acres.

In 1920 the Bears became the mascot for the teams. However, it wasn't until April 7, 1921, that the teams were called the "Bears" in print. The Bear was an appropriate symbol for the school because Arkansas' nickname was the "Bear State".

6. Journal (JAAS #70) Report: Editor-In-Chief Mostafa Hemmati

During the spring 2016 semester, 51 manuscripts

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were submitted for consideration for publication in volume 70 of the Journal of the Arkansas Academy of Science (JAAS). Soon after receiving the manuscripts, all manuscripts were sent to reviewers and three Associate Editors. The reviewers sent all manuscripts and their comments back before the end of July 2016.

Reviewers' comments were sent to the authors between July 15, 2016, and July 30, 2016. That process was completed by July 30, 2016. The authors were asked to respond to the reviewers' comments and return their manuscript back to Managing Editor, Dr. Still, by August 31, 2016. That allowed more than a month of time for the authors to respond to the reviewers' comments and pay for the Journal page charges. In the same letter, the authors were asked to mail a check for their page charges as well. August 31, 2016, was also the deadline for receipt of the payment of the page charges; we had to extend the deadline up to October 15 this year.

One manuscript was rejected due to poor English, two manuscripts were rejected by reviewers, one author did not submit the final manuscript, and we did not receive the payment for page charges of one of the manuscripts. Therefore, volume 70 of the Journal will include 46 manuscripts. In the process of manuscript submission, no manuscripts were lost.

Three Associate Editors, Dr. Collis Geren, Dr. Frank Hardcastle and Dr. Rajib Choudhury, helped considerably with locating possible reviewers for the manuscripts or serving as reviewer for more than one manuscript. I am grateful for Associate Editors' assistance. All activities relating to the handling of the manuscripts were performed electronically, and on the whole this expedited the review process. Managing editor post was performed by Dr. Ivan Still and as usual he did an excellent job. The Journal was completed by December 30, 2016 and the printing of the Journal was completed by March 15, 2017. I used Russellville Printing Company.

Managing Editor Ivan Still

There were 51 manuscripts submitted for consideration of publication in volume 70 (2016) of the JAAS, obviously boosted by the publicity of the 100th meeting.

By the beginning of May these manuscripts were checked for style, grammar, format, etc, to ensure compliance with the "Instructions to Authors". One paper was rejected at this Editorial stage due extremely poor standards of English, and the authors advised to remedy those issues for resubmission in

April 2017.

Abstracts were sent to potential reviewers mid to late May. Dr. Hemmati handled Physical Science papers and recruited Drs. Collis Geren, and Dr. Frank Hardcastle to serve as Associate Editors, while Biological Science manuscripts were handled by Dr. Still and Dr. Barron (Ecology/Environmental papers). All manuscripts were sent out electronically for review by the beginning of June. These were returned to the Managing Editor at the end of June/middle of July.

Authors were contacted by e-mail by the end of July 2016 at the latest and informed if their paper was accepted with the need for minor or major revision or whether their paper was rejected. Authors were asked to return their revisions to the Managing Editor electronically by August 31, with the page charges being submitted to Dr. Hemmati, Editor-in-Chief.

Two manuscripts were rejected.

One author did not submit their final manuscript, despite reminders being sent.

One was withdrawn due to lack of payment of Page Charges.

The total number of manuscripts that will published this year is 46 (a considerable improvement and hopefully the momentum of the 100th meeting will be maintained for the 101st), of which 2 were reviews, 31 were Articles, 13 were in General Note format. Volume 70 is 310 pages long (including cover pages).

I would like to thank the reviewers and Assistant/Associate Editors for their help in the preparation of volume 70: Dr. Barron was a new recruit to the Editorial Board and performed excellently.

Report on Changes in the Journal Archiving and Future Submission system.

In June 2016, Beth Juhl Librarian/Professor at UARK contacted us with regard to migrating the Arkansas Academy of Science Journal to be part of the Digital Commons-based repository that UARK was moving its institutional repository to. This platform offers some of the search engine optimization and enhanced presence in Google Scholar that we have all been discussing in the past. It also offers analytics to see how often and which articles are being accessed and downloaded (this feature is now active on the Journal webpage). Two other Academy journals (those of South Carolina and

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Georgia) currently use this system, and have been used to model our electronic site.

Over the past few months Dr. Alroobi, Cedar Middleton (UARK) Cherrie Smith (bepress) and I have been working on the format of the archive including the ability to use the system to perform all the necessary steps to move article submission and e-journal publishing on-line. Cedar Middleton began the monumental task of moving the archive to the JOURNAL website: <http://scholarworks.uark.edu/jaas/> at the start of November and has transferred volumes 1-8, and 45-69, with volume 70 coming on-line shortly.

This year, for submissions to Volume 71, we began accepting manuscripts electronically via the JOURNAL website: <http://scholarworks.uark.edu/jaas/>. For volume 71, I have also accepted manuscripts via email, direct to me. This will give all of us involved a trial run before moving to all electronic submissions in 2018.

Open Access registration

The Journal is a member of the Directory of Open Access Journals (DOAJ). Various clarifications were required by DOAJ to maintain status, including our actual open access policy, and registering a deposit policy at: <http://www.sherpa.ac.uk/forms/new-journal.php>. Thus, we have updated the copyright, use and licensing policy and all articles published in the JOURNAL will be made available for use the Creative Commons license: Attribution-NoDerivatives 4.0 International (CC BY-ND 4.0). The Journal was already in the SHERPA database in duplicate, and thus I am still liaising with SHERPA to work out all those issues.

These efforts all add to the visibility of the Journal across the world (as evidence by the worldwide usage reports on the Journal website).

Future issues that arise from the new archive:

I propose for ease of publishing both the electronic and hardcopy journal and maintenance of consistent page numbers for both to rearrange the layout of the journal:

The current “front pages” encompassing the meeting report will move to the back of the journal, with the manuscript Articles moving to the front, followed by the General Notes. The manuscripts will no longer be published in alphabetical order of first author, but rather in order of processing.

I propose that the “Instructions to Authors” then only be maintained on the Academy’s Journal

website with the link then to the Digital commons site.

These changes will streamline production editing of the Journal for future volumes. Ironically, these changes in format actually mirror some of the earlier volumes of the Journal, and mirror some of the layouts of other Academy Journals.

7. Webmaster: Rami Alroobi

Dr. Alroobi thanked the Academy for providing him this opportunity and reminded the members that this was his first year. His goal is to keep the web site simple but complete and accurate. If any members have corrections or needed additions, please contact RamiAlroobe@saumag.edu.

8. Newsletter: Panneer Selvam

Dr. Panneer Selvam provided the Newsletter Editor’s Report.

The hope is still to provide two newsletters per year, but this year the spring newsletter was all that was possible. If anyone who does not currently receive the newsletter and wants to do so, contact Panneer Selvam via e-mail rps@uark.edu and you will be added to the electronic mailing list.

9. Committee Reports:

Nominations Committee: Mostafa Hemmati

Panneer Selvam inherited the presidency of the Academy, with Frank Hardcastle as President-Elect and Edmond Wilson becomes Past President. Dr. Steve Addison was the committee’s nominee for Vice President. Collis Geren moved the nomination and Mostafa Hemmati seconded it. There were no nominations from the floor and Steve was unanimously approved by the membership.

Undergraduate Research Awards: Jess Kelly

Dr. Jess Kelly provided the report of the committee which received and selected this year’s recipients of research awards.

Dr. Kelly reported receiving nine proposals of which three were selected consistent with the authorized budget. He noted that this year’s proposals could request up to \$1,000.

The recipients are:

1. Megan Cassingham, led by faculty mentor Courtney Hatch – Hendrix College. Awarded \$1,000

2. Quinton Smith, led by faculty mentor Muhammed Kahn- Arkansas Tech University.

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Awarded \$1,000

3. Claire Turkal, led by faculty mentor Maureen McClung – Hendrix College. Awarded \$850

11. Business Old and New:

The 2018 annual meeting of the Academy will be hosted by Arkansas State University. Dr. Andy Sustich will chair the meeting.

Dr. Addison reported there were 18 total Student awards approved by the judges at the 101th AAS meeting and are detailed in Appendix A.

11. Motions and Action Items:

Dr. Mostafa Hemmati requested a discretionary budget of \$8,000 for the coming year for items other than for the journal. Dr. Jess Kelly moved approval and Ann Willyard provided the second. The membership moved unanimous approval.

Dr. Panneer Selvam was installed as the President for 2017-2018. He requested that anyone with suggestions for improving the Academy should e-mail him directly at rps@uark.edu. Frank Hardcastle became President-Elect, Steve Addison became Vice President, and Edmond Wilson becomes Past President.

Dr. Ann Willyard moved adjournment at 12:35pm.

Submitted by Collis Geren, Secretary on May 17, 2017.

Treasurer's Report
ARKANSAS ACADEMY OF SCIENCE
2017 FINANCIAL STATEMENT
December 14, 2017

Balance – December 14, 2017 **\$142,987.74**

Balance – December 1, 2016 **\$127,944.53**

Net Gain **\$15,043.21**

DISTRIBUTION OF FUNDS

Checking Account Dec. 13, 2017 **\$11,512.18**
Arvest Bank, Russellville

PayPal Account: available funds **\$703.78**
on December 14, 2017

PayPal Registration Account – **\$54.60**
Available Funds on Dec. 14, 2017

Certificate of Deposit Nov. 21, 2017 **\$51,358.59**
Includes Phoebe and George Harp Endowment
Arvest Bank, Russellville

Certificate of Deposit Nov. 21, 2017 **\$51,358.59**
Arvest Bank, Russellville

Certificate of Deposit Nov. 21, 2017 **\$28,000.00**
Arvest Bank, Russellville

Combined interest from Arvest Bank YTD (November 21, 2017):
\$134.71+\$134.71+0 = \$269.42

TOTAL **\$142,987.74**

INCOME

1. Transfer from Checking to CD **\$28,000.00**
(Oct. 13, 2017)

2. GIFTS RECEIVED
a. Contribution, Collis Geren **\$200**
\$200.00

3. INTEREST (Interest Earned Year to Date)
a. Checking Account, Arvest Bank 1290 **\$0**
b. CD1 (Arvest Bank) 1357 **\$134.71**
c. CD2 (Arvest Bank) 1358 **\$134.71**
d. CD3 (Arvest Bank) 1550 **\$0**

All interest was added to the CDs **\$269.42**

4. JOURNAL
a. Page Charges **\$11,500**
b. One Copy of Natural Heritage **\$50**
c. Subscriptions, University of Arkansas **\$250**
\$11,800.00

5. MISCELLANEOUS INCOME
a. Refund from ATU Undergraduate Research Grant **\$13.06**
\$13.06

6. MEMBERSHIP
a. Associate **\$15**
b. Individuals **\$30**
c. Individual **\$210**
d. Institutional **\$900**
e. Life, Addison \$500 (Check) **\$500**
f. Life, Kim Smith, \$500 (PayPal) **-0-**
\$1,655

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a. PayPal Transfer	\$3,200
b. PayPal Transfer	\$6,700
c. Registration – 8 ATU Students	\$320

\$10,220**TOTAL INCOME \$23,888.06****EXPENSES****1. STUDENT AWARDS \$1,450****2. AWARDS (Organizations) (December 13, 2016)**

a. Junior Science and Humanities Sym.	\$400
b. Arkansas State Science Fair	\$400
c. Arkansas Junior Academy of Science	\$250
d. Arkansas Science Talent Search	\$150

\$1,200.00**3. UNDERGRADUATE RESEARCH AWARDS**

a. Dr. Hatch, Hendrix	\$1,000
b. Dr. Khan , ATU	\$1,000
c. Dr. McClung, Hendrix	\$1,000

\$3,000.00**4. JOURNAL**

a. Volume 70 Printing Cost	\$3,179.53
b. \$50 Refund on Extra Page Charges	\$50
c. Journal Mailing Cost	\$91.23

\$3,320.76**5. MISCELLANOUS EXPENSES**

1. Affiliation to AAAS Dues (Jan. 30, 2017)	\$150.00
2. Reimbursed Collis for Plaques	\$98.78
3. Awards Mailing Cost	\$18.05
4. AAS Website Cost	\$119.50
5. National Association of Academies Dues (Aug.15, 2017)	\$150.00
6. EXCOM Lunch and Breakfast Expenses (Mostafa)	\$93.99

\$630.32**6. MEETING EXPENSES**

1. Mailed \$838.14 check to Dr. Adams	\$838.14
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\$838.14**TOTAL EXPENSES \$10,439.22**

Business meeting report**ARKANSAS ACADEMY OF SCIENCE
COST OF JOURNAL**

VOLUME	COPIES	PAGES	PRINTER CHARGE	TOT. VOL. COST	COST/ COPY	COST/ PAGE
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
63 (2009)	213	206	\$3,144.08	\$3,144.08	\$14.76	\$15.26
64 (2010)	232	158	\$2,713.54	\$2,764.30	\$11.91	\$17.50
65 (2011)	200	194	\$2,915.12	\$2,963.03	\$14.82	\$15.27
66 (2012)	200	216	\$3,087.91	\$3,180.29	\$15.90	\$14.72
67 (2013)	200	238	\$3,311.42	\$3,396.32	\$16.98	\$14.27
68 (2014)	180	192	\$2,812.75	\$2,944.08	\$16.36	\$15.33
69 (2015)	180	170	\$2,622.87	\$2,622.87	\$14.57	\$15.43
70 (2016)	180	310	\$3,179.53	\$3,320.76	\$18.45	\$10.82

The Total Volume Cost equals the printer's charge plus the other miscellaneous charges (e.g. Mailing Costs).

- 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.

APPENDIX A

AWARD WINNERS FROM THE 101ST ANNIVERSARY AKANSAS ACADEMY OF SCIENCE
(awardees are underlined)

UNDERGRADUATE ORAL PRESENTATION

AWARDS: Biology

1st Place

Collagen Increases Tumorigenicity of Papillary Thyroid Cancer Cells Harboring BRAFV600E Mutations by Anna Sharabura; Mackenzie Gearin; Laura MacDonald. Hendrix College

UNDERGRADUATE POSTER PRESENTATION

AWARDS: Biology

1st Place

Influence of Common Salt Concentrations on Detritivore Respiration by Billy Huggins; Ashton Brass; Matthew Gifford; Sally Entrekin. University of Central Arkansas

2nd Place

Evaluating the Effects of Bird Feeders on Songbird Plumage Coloration by Stetson R. Collard; Douglas G. Barron. Arkansas Tech University

GRADUATE POSTER PRESENTATION

AWARDS: Biology

1st Place

A Habitat Suitability Analysis of the Red Wolf across its Historic Range by Lauren Toivonen; Matthew Gompper; Hong He. University of Missouri, Columbia

GRADUATE ORAL PRESENTATION AWARDS:

Ecology

1st Place

The Use of Color as a Status Signal in the Prairie Lizard, *Sceloporus consobrinus* by Christopher Robinson; Matthew Gifford. University of Central Arkansas

2nd Place

Components of Urbanization and Urban Proximity Identify Threats to Stream Water Quality by Stephanie Stoughton; Sally Entrekin. University of Central Arkansas

2nd Place

Migration Dynamics of Ohio Shrimp, *Macrobrachium ohione*, in Arkansas by Geoffry Spooner; Reid Adams; Lindsey Lewis. University of Central Arkansas

UNDERGRADUATE ORAL PRESENTATION

AWARDS: Ecology

1st Place

A Fracking Racket: Do Birds Change the Way They Sing When Experiencing Chronic Noise from Shale Gas Extraction? by Claire Turkal; Anna Claire Atkins; Charlotte Marchioni; Evan Mitchell; Maureen McClung. Hendrix College

2nd Place

Seed Dispersal in Osage Orange (*Maclura pomifera*) By Squirrels (*Sciurus spp.*) by Sophie Katz; Jessica Bonumwezi; Matthew D. Moran; Jennifer L. Penner. Hendrix College

UNDERGRADUATE ORAL PRESENTATION

AWARDS: Chemistry

1st Place

Photocatalytic Sterilization of Aqueous Solutions by David Williams; Justin Barrett. Arkansas Tech University

UNDERGRADUATE POSTER PRESENTATION

AWARDS: Chemistry

1st Place

Identifying the Structure of Fat-Mobilizing Substance (FMS-1) Associated with Cogenital Lipodystrophy by Mallory Bryant. Harding University

UNDERGRADUATE ORAL PRESENTATION

AWARDS: Physics

1st Place

Suppression of Radiation-Induced Chromosome Damage by GT3 and the Role of Microgravity by Calla Bassett; Abdel Bachri; Rupak Pathak. Southern Arkansas University

UNDERGRADUATE POSTER PRESENTATION

AWARDS: Physics

1st Place

Potential Differences in Problem Solving Approaches When Using Different Textbooks by Charles Bertram; Andrew Mason. University of Central Arkansas

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2nd Place

The Langrangian and Hamiltonian formulation of the Linear Oscillator Chain by Garrott Granholm, University of Central Arkansas

1st Place

Low-Delay Rate Control for H.265/Hevc Video Compression by Reese Childer; James Palmer; Joseph Hilton; Yu Sun. University of Central Arkansas

GRADUATE POSTER PRESENTATION

AWARDS: Computing Science

1st Place

A Gentleness Simulator for Surgical Dexterity Evaluation of Surgeons with Haptic Interfaces by Recep Erol; Doga Demirel; Alex Yu; Tansel Halic; Sinan Kockara, Kevin Sexton. University of Central Arkansas

UNDERGRADUATE ORAL PRESENTATION

AWARDS: Geoscience

1st Place

Lithologic Character, Sequence and Diagenetic History of Lower Mississippian Tripolitiic Chert, Northern Arkansas and Southern Missouri by Sydney McKim; Jonathan Chick; Julie Cains; Forrest McFarlin; Adriana Potra. University of Arkansas, Fayetteville

**APPENDIX B
RESOLUTIONS**

**Arkansas Academy of Science
101st Annual Meeting, 2017 Resolutions**

Be it resolved that we, the membership of the Arkansas Academy of Science (AAS) offer our sincere appreciation to the University of Central Arkansas for hosting the 101st annual meeting of the Academy. We thank the local arrangements committee: Stephen Addison (Chair), Ginny Adams (Co-Chair), Ben Rowley, Robert Mauldin, Steve O'Connell, George Bratton, Ashley Hicks, Yu Sun, Dayna Bilderback, Tracy McGarrity and the Provost and Deans who supported the awards and volunteering Faculties listed in the AAS proceedings.

We sincerely thank the University of Central Arkansas for providing its facilities and service during the meeting and Aramark for the catering service.

We especially thank our keynote speaker, Dr. Sally Entekin, for her informative talk.

The Academy recognizes the important role of our session chairs: Arijit Mukherjee (UCA), Amber Harrington (ATU), Mostafa Hemmati (ATU), Antoinette Odendaal (SAU), Jess Kelly (OBU), Carl Frederickson (UCA), Douglas Barron (ATU), Ann Willyard (HC), Jeff Allender (UCA), Douglas James (UAF), Muhammad Khan (ATU), and Tsunemi Yamashita (ATU).

Even greater appreciation and sincere gratitude is extended to our dedicated judges for the student presentations including Arijit Mukherjee (UCA), Amber Harrington (ATU), Mostafa Hemmati (ATU), Antoinette Odendaal (SAU), Jeff Kelly (OBU), Carl Frederickson (UCA), Douglas Barron (ATU), Ann

Willyard (HC), Jeff Allender (UCA), Puskar Chapagain (SAU), Kari Naylor (UCA), David Sasse (AGF), Rick Noyse (UCA), Jessica Young (ATU), Dennis Province (HU), William Slaton (UCA), Jennifer Dearolf (HC), Muhammad Khan (ATU), Mikolaj Sulkowski (SAU), Mary Stewart (UAM), Stephen Addison (UCA), Martin Campbell (HSU), Amirta Puri (UCA), Matthew Young (ATU), Tammy Haselkorn (UCA), Nilu Runge (UCA), Brian Wagner (AGFC), Mariusz Gajewski (ATU), Bernard Chen (UCA), Jamie Dalton (ATU), David Dussourd (UCA), and Rahul Mehta (UCA).

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 Ed Wilson (President), Panneer Selvam (President Elect), Ann Willyard (Past President), Franklin Hardcastle (Vice President), Mostafa Hemmati (Treasurer and Journal Editor-in-Chief), Ivan Still (Journal Managing Editor), Panneer Selvam (Newsletter Editor), Rami Alroobi (Webmaster), Kimberly Smith (Historian), and Collis Geren (Secretary).

Respectfully submitted on this 8th day of April, 2017. Resolutions Committee: Ed Wilson (President), Franklin Hardcastle (Vice President), and Mostafa Hemmati (Treasurer).

Arkansas Academy of Science Meeting report

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