

# Arkansas Academy of Science

## AAS Newsletter 2022

Editor: R. Panneer Selvam

February 2022

### *Of Special Interest...*

#### CALL FOR PAPERS

- 105th Annual Meeting of the Academy
- AAS Student Research Grants
- Members Corner
- Editorial Note & Liaison Officers



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\*\*\*You are encouraged to duplicate all or part of this document for dissemination amongst your colleagues. Encourage them to become members and to attend the annual meeting including the business meeting.

## 105th Annual Meeting of the Academy at Ouachita

The 105<sup>th</sup> annual meeting of the Arkansas Academy of Science will be held on April 1-2, 2022 on the campus of Ouachita Baptist University, 410 S. Ouachita St., Arkadelphia, AR. Conference activities will take place in the Jones Science Center (JSC) building, the Walker Conference Center, and the Reynolds Science Center on the Henderson State University campus.

Preregistered participants may pick up their conference packets and visit vendor tables starting at 12:00 PM. on Friday, April 1 in the Jones Science Center lobby. Oral presentations will begin at 1:00 PM and will continue Friday afternoon. A Poster Brunch will be held on Saturday morning starting at 9:00 AM.

On Friday at 6:00 PM, the banquet and keynote address will be held in the Walker Conference Center followed by the 'Star Glow' social in which desserts and beverages will be served in the Reynold Science Center lobby at Henderson State with planetarium shows.

We are happy to announce that Dr. Mary Virginia Orna, Emeritus Professor of Chemistry at College of New Rochelle, will be our keynote speaker. Participants will have the option of making an oral or poster presentation. Abstracts may be submitted online at <https://www.aasannualmeeting.org> until March 1st. Online registration and fee pay-



ments will remain open through the duration of the conference on April 2, 2022. The details of payment by web or mail are included on the registration page. For further details please check the above website. Detail on program and electronic version of the abstract book please look page#2. Contact Sharon Hamilton ([aasannualmeeting@gmail.com](mailto:aasannualmeeting@gmail.com)) for any additional questions.

Manuscripts for submission to JAAS Volume 76 should be submitted to the Journal Website by March 30. See Page 5 for more details.

## AAS Business Meeting for Everyone

The annual business meeting for ALL members of the Academy will take place Saturday, April 2, at 11:30 AM in the McBeth Recital Hall following the final presentations and judges meeting. After the business meeting, food trucks will be available for lunch at noon near JSC. If possible, please make travel plans that will allow you to stay and attend the business meeting. This meeting is for you, and your attendance, contributions,

expertise, and insights help the Academy provide the highest quality service to its membership.

Academy officers on the **AAS Executive committee will convene on Friday, April 1, at 10:00 AM** in the Alumni Room. Lunch will be served.

# Information For Presenters

Abstract submissions are now open for the 2022 AAS meeting. **Abstracts must be submitted online via the conference website by March 1st for both oral and poster presentations.** Further technology instructions for oral presentations will be sent to presenters in March. The presentation rooms will be accessible prior to each session for speakers to prepare for their talk. Oral presentations are scheduled in 15-minute increments. Please plan on a 12-minute talk followed by 3 minutes of questions. All oral presentations will begin at the scheduled time.

For optimal display, posters should be limited to 36 inches high x 48 inches wide. Poster sessions for all disciplines will be 9:00-11:00 AM Saturday morning with setup time 8:30-9:00 AM. Posters will be displayed in the Walker Conference Center. Displaying supplies will be provided.

## JAAS Publication

JAAS Publication Manuscripts for publication in the Journal, based on a presentation given at the meeting, are to be submitted two days prior to the meeting (March 30), via the Journal website. See page 5 for brief information about publishing in the Journal.

**PLEASE read instructions for prospective authors** found on the Academy website  
<http://www.ArkansasAcademyofScience.org>

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## Membership and Registration Fee Payments & Other Details

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Please complete the membership and registration forms at <https://www.aasannualmeeting.org> prior to attending the meeting. The online forms will remain open throughout the duration of the conference to allow for late registration. You may make online payments for AAS membership and conference registration from the same website. Details of fees and payment information can be found on the website at <https://www.aasannualmeeting.org/registration>.

**Program & Abstract Book:** The printed program this year will be a condensed version that includes a basic schedule and presenter names and presentation titles. Abstracts and other conference details will be available in a larger pdf document which will be available for download or viewing via the conference website. We encourage participants to download the pdf document to your favorite device before arriving at the meeting.

Additionally, we will be sending out meeting notifications via Remind. If you have a smartphone, you can get push notifications by going to [rmd.at/aas-2022](https://rmd.at/aas-2022). Follow the instructions to sign up for Remind and download the app. If you don't have a smartphone, you can get text notifications by texting @aas-2022 to the number 81010.

<http://www.ArkansasAcademyofScience.org> (Meetings tab)

(Journal tab). Any questions can be directed to the Editor-in-Chief of the Journal (Dr. Ivan Still, [jarksci@gmail.com](mailto:jarksci@gmail.com)).

## Keynote Speaker\*



### Mary Virginia Orna, Ph.D.

Mary Virginia Orna is Professor of Chemistry, Emerita, College of New Rochelle. She received her Ph.D. in analytical chemistry from Fordham University and has lectured and published widely in the areas of color chemistry and archaeological chemistry. She has researched ancient middle-eastern artifacts in collaboration with the Israel Antiquities Authority, the Israel Museum and the Edelstein Center for the Analysis of Middle Eastern Textiles and Related Artifacts. She is presently President of “ChemSource, Inc.”, a major effort in chemistry teacher preparation and enhancement funded by the National Science Foundation, and also of Dwight D. Eisenhower Title IIA chemical education summer programs at the College of New Rochelle. As a hobby, she enjoys constructing crossword puzzles and has been a frequent contributor to the Sunday *New York Times*, *SciQuest*, *Clinical Chemistry News*, *American Laboratory*, *Today’s Chemist* and other publications. She is an ACS tour speaker and has been an invited lecturer to every part of the United States and many countries in Europe, the Middle East, and the South Pacific. Two of her recent books, *The Lost Elements: The Periodic Table’s Shadow Side* (Oxford University Press) and *Science History: A Traveler’s Guide* (American Chemical Society and Oxford University Press) have had rave reviews. Dr. Orna will be speaking on her work as a color chemist and historian of science.

*\*The keynote speaker is sponsored by the Nell Mondy Lecture Series at Ouachita Baptist University.*

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**Editor’s Corner:** I have been contacting different Universities for a Liaison Officer to AAS. I have names from ATU, HSU, PSC, SAU, UARK and ASU. So if you are interested to serve the AAS, please feel free to contact me: R. Panneer Selvam, UARK, email: [rps@uark.edu](mailto:rps@uark.edu), ph: (479)575-5356

Please feel free to give your feedback to improve the news items.

## Tentative Schedule of Events

January 25, 2022	Conference website available
January 25, 2022	Registration begins
January 25, 2022	Submission of oral and poster presentation abstracts begins
March 1, 2022	Last day to submit abstracts for oral and poster presentations
March 15, 2022	Undergraduate Research Award Proposals due
March 30, 2022	Final deadline for submission of JAAS manuscript for review
April 1-2, 2022	Annual AAS Meeting, Ouachita Baptist University

## Conference Schedule at a Glance

### Friday, April 1

10:00-12:00	Executive Committee Meeting (Alumni Room)
12:00-5:45	Registration/Vendors (Jones Science Center Lobby)
1:00-3:00	Oral Presentations (Jones Science Center)
3:00-3:30	Networking Break (Jones Science Center)
3:30-5:30	Oral Presentations (Jones Science Center)
6:00-8:00	Banquet and Keynote Address (Walker Conference Center) Mary Virginia Orna, Ph.D. Professor Emeritus of Chemistry, College of New Rochelle.
8:00-9:30	"Star Glow" Social at HSU Reynolds Science Center

### Saturday, April 2

7:30-8:30	Ouachita River Bird Walk (meet outside Walker Conference Center)
8:30-9:00	Registration (Walker Conference Center)
9:00-11:00	Poster Brunch (Walker Conference Center, B and C)
11:00-11:30	Tallying of judges scores (Walker Conference Center, Walker Lounge)
11:30-12:30	Business Meeting/Awards (McBeth Recital Hall)
12:30	Food trucks at Ouachita for lunch

## 2021 AAS Executive Officers

### **Dr. Andy Sustich President**

Department of Chemistry & Physics, PO Box 419,  
State University, AR 72467-0419  
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### **Dr. Andy Sustich Treasurer**

Department of Chemistry & Physics, PO Box 419,  
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ph: (870) 972-2414 email: [sustich@astate.edu](mailto:sustich@astate.edu)

**Please mail membership dues to the above address!!!**

### **Dr. Ivan Still Editor-in-Chief, AAS Journal**

C/O Dept. of Biological Sciences, Arkansas Tech University  
1701 N. Boulder Ave., Russellville, AR 72801-2222  
email: [jarksci@gmail.com](mailto:jarksci@gmail.com)

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**Aren't you the right person to step up to a leadership role?**

## **Journal of the Arkansas Academy of Science (JAAS):**

Manuscripts for publication in the *JOURNAL*, based on a presentation given at the meeting, are due two days prior to the annual meeting. One of the authors must be an AAS member to publish in the *JOURNAL*. Manuscripts must be submitted to the *JOURNAL* website: <http://scholarworks.uark.edu/jaas/>. Authors and co-authors who have submitted manuscripts via the system previously, should use the contact/email and password that they used previously. New authors should follow instructions on the site to establish their profile. Authors can subsequently update their profile with any changes to their contact and account info as necessary. Should you have any problems, please contact the Editor-in-Chief ([jarksci@gmail.com](mailto:jarksci@gmail.com)).

## **Comments for Prospective Authors**

Authors are required to use the instructions found on the AAS website in preparing manuscripts submitted for publication in the *JOURNAL*. Authors are directly responsible for the major formatting of their article and, thus, manuscripts must be properly formatted PRIOR to submission. **Of particular importance is proper setting of margins, line and paragraph spacing.** Figures and tables must be inserted into their appropriate locations in the manuscript. A caption should be written under each figure and above each table. The editor and printer do no significant retyping or editing and only act to assemble the *Journal*. The electronic copy of the manuscript (word document, not pdf) should be a single file. To view and/or download new instructions visit the Academy website. Please note that after successful review **the final product submitted by the authors will be the published document in the *Journal*.**

All manuscripts must be submitted electronically via the *JOURNAL* website: <http://scholarworks.uark.edu/jaas/> with the entire review and publication procedure being handled via the server. Please allow time to get use to the new system if you have not used it before. E-mailed manuscripts will no longer be accepted.

**To avoid rejection at Editorial review, PLEASE read the instructions for prospective authors** found on the Academy website: <http://www.arkansasacademyofscience.org/aasjournal.html> (**Journal tab**). The instructions and policies can also be accessed by following the links from the *Journal* web site.

## **Reviewers, and future Editor-in-Chief and Managing Editor Solicited**

Persons interested in acting as Reviewers in their field of expertise of manuscripts submitted for publication in the *AAS Journal* are needed. We are also looking for members who would like to become the Editor-in-Chief and Managing Editor when Dr. Still retires after Volume 75 in 2021. See next page for description of the duties of the Editor-in-Chief and Managing Editor positions.

If you are interested in any of the above, please contact Ivan Still ([jarksci@gmail.com](mailto:jarksci@gmail.com)) by e-mail and provide your contact information and area(s) of expertise. For potential reviewers, please be specific about the individual subjects you wish to review. (e.g. not just Botany, but herbaceous plants, or woody plants, or aquatic plants; and not just vertebrates, but reptiles, particularly snakes.)

**Awards competition for student presentations at the AAS Meeting:** Students commonly present results of their research at the annual meetings of the Arkansas Academy of Science. Our award competition seeks to recognize outstanding presentations made by these students. Categories for oral presentation awards include Life Science and Physical Science, at both the undergraduate and graduate levels of competition. Certificates and cash awards may be given for first place (\$100), second place (\$50), and third place (\$50). Awards for the best overall undergraduate and graduate poster presentations will also be made.

Student presenters interested in any of these competitions should indicate their desire to compete on their submitted abstract. Presentations and posters not specifically entered into the competition will not be judged, nor will they be eligible for an award.

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## **Arkansas Academy of Science PERMANENT ONLINE HOME:**

**AAS Web Pages:** The official website of the Academy now has a permanent public portal whose web address will never change although internal links for member pages might whenever the host migrates. Always access the online Academy pages from the permanent public portal...

**<http://www.ArkansasAcademyofScience.org>**

### **Duties of the Editor-in-Chief (Looking for new Editor-in-Chief)**

The Editor-in-Chief is an elected member of the Executive Committee of the Arkansas Academy of Science and is responsible for oversight of the publishing the Journal of the Arkansas Academy of Science. The Editor-in-Chief works closely with the Managing Editor and members of the *JOURNAL* Editorial Board (the Academy "Publication Committee") in all aspects of the publication process. The peer-reviewed *JOURNAL* has evolved over the past decade, and is now globally available through the *JOURNAL* website (<https://scholarworks.uark.edu/jaas/>). The *JOURNAL* is thus published on-line and also as a hard copy *JOURNAL* that is distributed to Academy members, and member Institutions.

#### **Specific duties:**

1. Receives manuscripts submitted for publication and cooperates with Managing Editor and Associate Editors in the review, revision and acceptance process
2. Liaises with the Treasurer of the Academy of the Arkansas Academy of Science with regard to the financial management of the *JOURNAL*, and prepares reports for the Executive Committee and the Annual General Business meeting regarding the status of the *JOURNAL*.
3. Prepares the next issue of the *JOURNAL* by assembling the final copies of manuscripts accepted for publication
4. Works with the printer in the technical preparation of the Journal.
5. Arranges for the distribution of copies of the Journal at the next annual meeting, and mailing of copies to Academy members and Institutional Members.

### **Duties of the Managing Editor**

#### **Publication of the Journal of the Arkansas Academy of Science**

The Managing Editor acts as the primary contact person during manuscript submission in March/April each year. All manuscripts are submitted a minimum of 2 days prior to the annual meeting electronically via: <https://scholarworks.uark.edu/jaas/>, the *JOURNAL* website. The Managing Editor ensures that manuscripts and their authors are in compliance with the policies and instructions to authors as laid out on the *JOURNAL* website and cooperates with the Editor-in-Chief to perform initial Editorial review. The Managing Editor assigns manuscripts to appropriate Associate Editors who subsequently submit manuscripts to referees for critical review for scientific content, originality and clarity of presentation. This process is handled via the *JOURNAL* server. Associate Editors are assigned based on their areas of expertise. The Editor-in-Chief, Managing Editor and Associate editors, (the Publication Committee) cooperate in the acceptance, rejection or revision of all manuscripts. Author-revised manuscripts will be the manuscripts that will be entered into the final on-line and hard copy *JOURNAL*. However, manuscripts frequently require finishing touches to formatting to maintain the quality of the *JOURNAL*. Thus, the Managing Editor subsequently ensures that accepted revised manuscripts meets publication standards for the *JOURNAL* on-line and in the hard copy. The Managing Editor also collects the Secretary's and Treasurer's reports, the annual meeting report and assembles the meeting reports with the final copies of manuscripts into the completed *JOURNAL* for publication. The on-line system allows a relatively simple way of assembling the on-line *JOURNAL*. The Institutional Repository Coordinator at University of Arkansas (currently Cedar Middleton) can aid with this final assembly. Finally, the Managing Editor is responsible for the distribution of hard copies of the *JOURNAL* at the next annual meeting, and where necessary prepares journals for mailing to the Institutional members of the Academy and to Members of the Academy who were unable to attend the annual meeting.

#### **Liaison with associated organizations.**

The Journal of the Arkansas Academy of Science is an Open Access Journal. The University of Arkansas Libraries have partnered with the Academy to archive and make volumes of the *JOURNAL* and Proceedings freely available worldwide online at <https://scholarworks.uark.edu/jaas/>. This repository is indexed in the Directory of Open Access Repositories. The Managing Editor is the contact person for the Directory of Open Access Journals and the International directory, SHERPA, and handles any issues with maintaining status within these directories.

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**<http://www.ArkansasAcademyofScience.org>**

## Conference Accommodations in Arkadelphia

The Fairfield Inn and Suites is the preferred hotel in the area and AAS attendees can book rooms at a special rate for the Arkansas Academy of Science annual meeting, April 1-2 in Arkadelphia, AR. These hotels are conveniently located near I-30 and are a short driving distance from the Ouachita campus and area restaurants. Links for each of the hotels can be found at <https://www.aasannualmeeting.org> under the “Lodging” tab. We ask that you reserve your rooms early to get the best rate.

**Fairfield Inn and Suites**

258 Red Hill Rd, Arkadelphia, AR 71923, (870) 245-0003

**Hampton Inn**

108 Malvern Rd, Arkadelphia, AR 71923, (870) 403-0800.

**Holiday Inn Express & Suites**

7 Frost Rd, Caddo Valley, AR 71923. (870) 403-0880

**Baymont by Wyndham**

100 Crystal Palace Dr, Caddo Valley, AR 71923, (870) 246-3800

## Directions and Conference Parking

There will be adequate free parking near the conference buildings on the Ouachita campus. The conference website will have maps and directions to campus as well as maps indicating parking and building layouts. There is another large event happening at Ouachita the morning of April 2<sup>nd</sup>. Please be aware that campus will not be accessible via 6<sup>th</sup> Street – you should enter campus via the N. 8<sup>th</sup> Street entrance.

## Organizing Committee

Sharon K. Hamilton (Chemistry), Chair

Matt Douglass (Academic Affairs)

Kevin Cornelius (Physics)

Debra Coventry (Mathematics)

Jennifer Fayard (Psychology)

Sara Hubbard (Chemistry)

Jeff Matocha (Computer Science)

Maddie Myers-Burg (Psychology)

Suzanne Neidhart, (Chemistry), Henderson State University

Christin Pruett (Biology)

Adam Wheat (Career & Calling)

Contact Sharon K. Hamilton ([aasannualmeeting@gmail.com](mailto:aasannualmeeting@gmail.com) 870-245-5092) with any questions.

# Arkansas Academy of Science

## Undergraduate Research Awards (up to \$1000)

Applications available at  
<http://www.arkansasacademyofscience.org/>

**Applications are due: March 1, 2022**

To send applications or for more information  
contact:

**Dr. Stephen R. Addison    [saddison@uca.edu](mailto:saddison@uca.edu)  
(501) 450-3199**

