

# Arkansas Academy of Science

## AAS Newsletter 2016

Editor: R. Panneer Selvam

January 2016

### *Of Special Interest...*

#### CALL FOR PAPERS

- 100<sup>th</sup> 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.

## 100<sup>th</sup> Annual Meeting of the Academy at UARK

The 100<sup>th</sup> annual meeting of the Arkansas Academy of Science will be held on **April 1-2, 2016**, hosted by the University of Arkansas at Fayetteville, AR.

Friday afternoon will include oral and poster presentations. Friday evening will feature an informal mixer, dinner, and keynote speakers. Oral presentations will continue on Saturday morning. **The Governor is invited and waiting for their office approval and the Chancellor Joseph E. Steinmetz from the UARK agreed to speak.**

Participants will have the option of making an oral or poster presentation. Completely filled registration form, abstract(s), registration fee and membership dues must be received before **March 4th**. The details of payment by web or mail is detailed in the registration form. Registration and abstract submission forms are available online at: <http://compmech.cveg.uark.edu/aas100.html>

## AAS Business Meeting for Everyone

The annual business meeting for ALL members of the Academy will take place **Saturday April 2nd** at 11:45 am in the BELL Engineering building after the final session.

Please make travel plans that will allow you to stay and attend the business meeting. The meeting is for you, and your



For further information you can contact **Dr. R. Panneer Selvam, ph: 475-575-5356, email: [rps@uark.edu](mailto:rps@uark.edu)**

Journal Manuscripts are due to Managing Editor or Editor-In-Chief at the meeting for inclusion in the JAAS Volume 70. Editorial staff will have a table near registration. **PLEASE read instructions for prospective authors** found at the Academy website.

<http://arkansasacademyofscience.org>

attendance, contributions, expertise and insights make the Academy better.

Academy Officers on the AAS Executive committee will convene on Friday, **April 1st at 10:00 am** in one of the meeting rooms in the Union before the start of the AAS meeting sessions.

# Information For Presenters

Presenters should clearly communicate any special equipment needs at the time of their registration. Computer projection systems for PowerPoint will be available.

All PowerPoint presentations must be on CD or USB flash drive (preferable) and must be loaded onto the computer available in the session room **prior to the start of the session.** Therefore, if you plan to use PowerPoint, you must be at the session at least 30 minutes prior to the start of the session (i.e., if your talk is at 10:15, then you are in a morning session that begins at 9:00 a.m. You must be there at 8:30 AM to load your talk onto the computer).

Abstract submission will be open for the 2016 AAS meeting soon. Abstracts must be submitted for both oral and poster presentations. Oral presentations are limited to 15 minutes (12 minute talk, 3 minutes for questions).

Posters are limited to 3 feet 9 inches in both width and height. Vertical display boards of a cork-like material will be available for poster displays. Poster sessions for all disciplines will be Friday afternoon.

Abstract submission and registration are online. Abstracts will be posted online within one week after they are received. Abstracts must be received

**by end of March 4th** for both oral presentations and posters! Be sure to submit your registration form as well.

At this time the web site is not ready for submission and that will be informed by UARK soon.

## **JAAS Publication**

Manuscripts for publication in the Journal, based on a presentation given at the meeting, are due at the time of the presentation. **Manuscripts should be e-mailed to the Managing Editor of the Journal (Dr. Ivan Still, [istill@atu.edu](mailto:istill@atu.edu)) two days before the meeting.** An electronic copy (on CD or flash drive) and hard copy should be handed to the editorial staff the day of the meeting. One of the authors must be an AAS member to publish in the Journal.

**PLEASE read instructions for prospective authors** found on the Academy website

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

# Invited Speakers

**Governor: Asa Hutchinson is invited.** Waiting for his office approval.

**Our guest speaker is Chancellor Joseph Steinmetz.**



**Biography:** Joseph E. Steinmetz became the sixth chancellor of the University of Arkansas on January 1, 2016. Prior to this appointment, he was Ohio State's chief academic officer. As executive vice president and provost, he oversaw the administration, coordination, and development of all academic functions of the university.

Dr. Steinmetz came to Ohio State in 2009 to serve as vice provost for arts and sciences and executive dean of the then-new College of Arts and Sciences. With his leadership, the former five independent colleges of arts and sciences were unified into the largest arts and sciences college in the country.

Before coming to Ohio State, Dr. Steinmetz was dean of the College of Liberal Arts and Sciences at the University of Kansas, where he was also a university distinguished professor.

A nationally respected behavioral neuroscientist,

Dr. Steinmetz was recognized in 1996 by the National Academy of Sciences for his contributions to the fields of experimental psychology and neuroscience. In 2012 he was named an AAAS Fellow and he is Fellow of three other societies.

His research interests include neuroanatomical and neurophysiological substrates of learning and memory; the effects of alcohol on neural and behavioral function; neurobiological and behavioral models of fetal alcohol syndrome; and the neurobiology of simple human learning, memory, and cognitive function.

Dr. Steinmetz earned his bachelor's and master's degrees at Central Michigan University and his doctorate at Ohio University. He and his wife, Sandy, have two sons and four grandchildren.

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**Editors Corner:** I have been contacting different Universities for a Liaison Officer to AAS. I have names from ATU, HSU, HC, OBU, PSC, SAU, UARK and UO. 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

## 2016 AAS Executive Officers

<u>Time</u>	<u>Event</u>	<u>Location</u>
<b>Friday April 1</b>		
10:00	Executive Committee Meeting	Union
11:00 -5:00	Registration and Payments	Union
12:00-12:30	Judges and Session Chairs	Union
1:00 – 2:30	Oral Sessions 1	Union & BELL
2:00 – 5:00	Poster Session	Union
2:30-3:00	Break -Refreshments	Union & BELL
3:00 – 4:30	Oral Sessions 2	Union & BELL
4:30 - 5:30	Mixer	Union
6:00 – 8:30	Banquet and Keynote Address	Union Ball room
<b>Saturday April 2</b>		
8:00 – 9:30	Continental Breakfast	BELL
8:00 – 10:00	Registration and payment	BELL
8:30 – 10:30	Oral Sessions 3	BELL
10:30 – 11:00	Meeting of Judges	BELL
11:00 – 11:30	Break	BELL
11:30-12:30	Awarding of Prizes	BELL
	Membership Meeting	BELL

**\*\*All members of the Academy are invited and strongly encouraged to participate in the AAS business meeting.\*\***

A copy of this Newsletter as well as previous editions are available ONLINE in the AAS members web pages accessed through the public portal at URL

<http://www.ArkansasAcademyofScience.org>

### Summary of Schedule

Mar 1 – Undergraduate Research Award Proposals  
 Mar 4 – Registration, Abstracts, payment of registration and dues  
 Mar 30 – JAAS manuscript (if submitting for review)  
 Apr 1 – 11 AM – registration opens at UARK Union

### Dr. Ann Willyard President (2015-2016)

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

### Dr. Mostafa Hemmati Editor-in-Chief, AAS Journal

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

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## Journal of the AAS (JAAS):

### Reviewers Solicited

Persons interested in acting as Associate Editors of the Journal or Reviewers in their field of expertise of manuscripts submitted for publication in the AAS Journal are needed.

Please contact Mostafa Hemmati (mhemmati@atu.edu) or Ivan Still (istill@atu.edu) by e-mail and provide your contact information and area(s) of expertise. 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.)

### Comments for Prospective Authors

Authors are required to use the instructions found on the AAS website in preparing manuscripts submitted for publication in the Arkansas Academy of Science's Journal. The figures, graphs, diagrams, pictures, etc. must be inserted inside the manuscript. The electronic copy of the manuscript should be a single file. A caption should be written under each figure and above each table. To view and/or download new instructions visit the Academy website.

This new process means that a significant reduction in typing and editing takes place from the authors direct control. **The final product submitted by the authors will be the published document in the Journal** (What-You-See-Is-What-You-Get, WYSIWYG). Or more to the point, what authors submit is what gets published. The editor and printer does no typing or editing and only acts to copy and bind the Journal.

## 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 those competing students. Categories for oral presentations include Environmental Science, Life Science, and Physical Science, at both 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 best Undergraduate and Graduate Poster (\$100) were added by the Academy, in response to the increasing popularity of that form of presentation as well.

Student presenters interested in any of these competitions should mark the appropriate category on the abstract submission form, to indicate their desire to compete. Presentations not specifically entered into the competition will not be judged, nor will 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>**



## Accommodations in Fayetteville (Around UARK)

UARK does have a campus hotel (The Inn at Carnal Hall) and from here one can walk within the campus easily. It is little bit expensive. There are more economical hotels around Weddington Drive or MLK Blvd and HWY 49. The Candlewood Suites and the Chancellor Hotel can also be walkable.

Since parking in the University is a problem on Friday, one can take the campus bus from Weddington Road (Tan bus route) or MLK Road (Purple bus route). The bus timings can be accessed from: <http://parking.uark.edu/transit-services/transit-operations/maps-and-schedules.php>

**Campus Map:** [http://www.uark.edu/rd\\_vcad/urel/info/campus\\_map/CampusMap.pdf](http://www.uark.edu/rd_vcad/urel/info/campus_map/CampusMap.pdf)

## Organizing Committee:

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Collis Geren, (Professor Emeritus), 479-521-5311, [cgeren@uark.edu](mailto:cgeren@uark.edu)  
Jim Rankin (Vice Provost for Research), 479-575-2470, [rankinj@uark.edu](mailto:rankinj@uark.edu)

### By Departments & Colleges UARK:

#### Dale Bumpers College of Agriculture:

Walter G. Bottje (POSC), (479) 575-2575 , [wbottje@uark.edu](mailto:wbottje@uark.edu)  
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#### College of Engineering:

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#### From UAMS

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Grover Miller, (Biochemistry), 501-526-6486, [millergroverp@uams.edu](mailto:millergroverp@uams.edu)

# **Arkansas Academy of Science**

## **Undergraduate Research Awards** (up to \$500)

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

**Applications are due: March 1, 2016**

**To send applications or for more information**  
**contact:**

**Dr. Jeff Robertson    jrobertson@atu.edu**  
**(479) 964-0548**



## 2015 AAS PRESENTATION AWARD WINNERS

### UNDERGRADUATE ORAL PRESENTATION AWARDS: CHEMISTRY & BIOCHEMISTRY

1<sup>st</sup> Place

*"Bond Valence = Bond Length Relationships for Carbon-Carbon and Carbon-Oxygen Bonds"* by Conner Harris and Franklin D. Hardcastle, Ph.D. Arkansas Tech University.

2<sup>nd</sup> Place

*"The Use of a Dinuclear Molybdenum Oxalate Quinolinium Salt as an Oxidizing Agent"* by Jake G. Windley and Burt Holandsworth, Ph.D. Harding University.

3<sup>rd</sup> Place

*"Development of a Quantification Method for Gold Nanoparticles in Mass Spectrometry Imaging"* by Gunnar A. Klemmer, Harding University.

### UNDERGRADUATE ORAL PRESENTATION AWARDS: PHYSICS & ENGINEERING

1<sup>st</sup> Place

*"Wave Profile for Anti-Force Waves with Maximum Possible Currents"* by M. Hemmati, R. Horn, W.C. Childs and A.K. Meredith, Arkansas Tech University.

2<sup>nd</sup> Place

*"High Resolution Spectroscopic Studies of Earth's Atmosphere"* by Emily J. Valerio and Edmond W. Wilson, Harding University.

3<sup>rd</sup> Place

*"Atmospheric and Solar Laboratory at Harding"* by Kyung Yoon and Edmond W. Wilson, Ph.D. Harding University.

### GRADUATE/UNDERGRADUATE ORAL PRESENTATIONS: BIOLOGY

1<sup>st</sup> Place

*"Natural Nutrient Sources in the Cache River Watershed, Arkansas"* by Mary K. Kilmer, Nicole Poe, Shelby Chappell, and Jennifer L. Bouldin, Arkansas State University.

2<sup>nd</sup> Place

*"Fruit Consumption Rates and Potential Seed Dispersal Species for the American Persimmon"* by Jillian F. Del Sol, Charli N. Davis, Natalie Skinner, Mimi Rebein, and Matthew D. Moran, Hendrix College

3<sup>rd</sup> Place

*"Expression Analysis of an Insect Glucose Oxidase Transgene in Tobacco"* by Jessie Kitchens and Nathan Reyna, Ouachita Baptist University.

### GRADUATE ORAL PRESENTATION AWARDS

1<sup>st</sup> Place

*"Terrain Effects on Tornado's Path Deviation"* by Nawfal S. Ahmed and R. Panneer Selvam, University of Arkansas, Fayetteville.

2<sup>nd</sup> Place

*"Electrodeposition of Copper Sulfide Rods and Whiskers"* by Michael Jason Newell, Joshua Vangilder, Maqsood Ali Mughal, Kayla Wood, Shyam Thapa, and Robert Engelken, Arkansas State University.

3<sup>rd</sup> Place

*"Control and Power Factor Analysis of a Solid State DC Transformer"* by Hussain Sayed, Ahmed Zurfi, and Jing Zhang, University of Arkansas at Little Rock

[The award information is provided by: Dr. Ivan Still, ATU]

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