

# THE Central Arkansas



## CHEMIST

The Newsletter of the Central Arkansas Local Section of the American Chemical Society

September 2014

### Meeting

**Thursday, September 25, 2014**

5:30 pm Dinner  
**Cheddar's Casual Cafe**  
400 S. University Ave.  
Little Rock, AR 72205  
(501) 614-7578

RSVP Grover P. Miller ([millergroverp@uams.edu](mailto:millergroverp@uams.edu)) by Sept. 23

7:00 pm Program  
**Dr. Howard Hendrickson**  
The Biopterin Metabolome:  
Unlocking the Mysteries of  
Ionizing Radiation Injury

Location: Univ. of Arkansas - Little Rock  
102 Fribourgh Hall  
Little Rock, AR 72205

Parking: Parking Deck near Donaghey  
Student Center

<http://ualr.edu/www/features/map/>



for the Center for Drug Delivery Research (CyDex Pharmaceuticals), and then returned to school where he earned a PhD in Analytical Chemistry under the direction of Dr. Donald Bobbitt at the University of Arkansas in 1996 and a post-doctoral fellowship in pharmacology under the direction of Dr. David Wessinger at the University of Arkansas for Medical Sciences. He joined the Department of Pharmaceutical Sciences at UAMS in 2005 as Assistant Professor where he was promoted to Associate Professor in 2012.

He believes that exciting challenges exist in the development of high-throughput analytical techniques capable of addressing problems identified by recent advances in the areas of pharmaceutical and drug discovery research. In general, his lab seeks to improve the speed of analysis beginning with sampling process and ending with the data analysis. His primary goal is to develop a general approach to analytical methods development that is based the physical and chemical properties of drug candidates. Of particular interest to his research group is the discovery and validation disease markers, through targeted metabolomics. In this time of uncertain government funding, his lab has expanded its mission to provided contract services for the pharmaceutical industry. In addition to his research efforts, he directs the Pharmaceutics I course in the PharmD curriculum at UAMS.

### About the Speaker

**Howard Hendrickson** received his BS in Chemistry from the University of Arkansas in 1987 and Masters in Bioanalytical Chemistry from the University of Kansas in 1991. He worked for 2 years

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## Local ACS Section News

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### **Your Section Needs YOU!**

Do you want to be more involved in local section activities, but you're not sure where to start? Do you know someone who you think would be an asset to our ACS section? Here's your chance! There are several opportunities available to serve on committees or as an officer on the Executive Board! Nominations for the Executive Board must be received by **November 1<sup>st</sup>**.

**Now accepting Executive Board nominations for:**

**Chair-Elect:** Plans programs and assists Chair. Succeeds Chair in the next calendar year.

**Secretary:** Compiles reports, distributes newsletter, and maintains records.

**Treasurer:** Prepares budget, files financial reports, and maintains financial records.

**Councilor:** Serves 3 years. Represents Section at ACS Council meetings and reports Council actions to section.

**Alternate Councilor**

You have a lot to offer! Get involved and be the change!

Contact Grover P. Miller ([MillerGroverP@uams.edu](mailto:MillerGroverP@uams.edu)) for nominations or more information on opportunities.

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### **Plan Ahead for Local Section Meetings & Events**

<u>Date</u>	<u>Location</u>	<u>Event</u>	<u>Speaker</u>
Oct 23 <sup>rd</sup>	OBU	Meeting	Chris Marvin
Nov 10 <sup>th</sup>	UAMS	Banquet	Joe Vinson

Have questions? Visit the section's website!

<http://centralarkansas.sites.acs.org>

You'll find the section's meeting schedule, announcements, information about Section services, and other useful links.

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### **Central Arkansas ACS Section gets involved in local Chemistry Education**

This August, our Local ACS section had the privilege to lead a High School chemistry teacher training workshop

for Little Rock Public Schools. This workshop focused on tools that can be utilized in the classroom and the laboratory to help make chemistry more accessible and more fun for students. Activities included electron configuration worksheets, using simulations and iPad apps in the classroom, and a shaving foam printing laboratory/hands-on activity. Organized by Dr. Beth Maris, our High School liaison, the teachers had a lot of fun and found some new activities to bring into their classrooms!



Dr. Ed Wilson shares some teaching strategies with Little Rock High School teachers.

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### **Student Chapter Spotlight:**

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**University of Arkansas  
at Little Rock**  
**Zach Hicks, Chapter President**  
**Dr. Jerry Darsey, Advisor**

The American Chemical Society Student Organization at the University of Arkansas at Little Rock [UALR], in conjunction with the Chemistry Department, has taken initiative in continuing growth and notability around campus. For the past year, the primary focus of the organization has been to increase student involvement and reach out to high school students to persuade them to follow a path in chemistry. The chapter has continuous programs to promote undergraduate research and develop partnership between the university and local schools, including helping with science fairs, conducting experiments and demonstrations with local Jr. High and High School students, and offering free tutoring to UALR students in freshman or organic chemistry. The monthly meetings of the chapter include guest speakers in chemistry and

chemically related fields, successful stories of our chemistry graduates, and seminars on how to excel in chemistry. Students who attend the meetings enjoy free lunches, as well as the chance to engage with professors and graduate students.

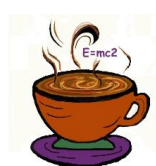
One of the major events the chapter participated in was a campus-wide recruitment dubbed "Discover UALR." Prospective students visited campus to discover possible majors and fields of studies. Our ACS group set up a table along with other academic groups from the College of Science with a poster displaying information about chemistry jobs and salaries. Several demos were performed, including a Clock Reaction and Elephant's Toothpaste. The looks of awe that they gave after each experiment and after they were told about the research information was fulfilling and reminded us that this is what the purpose of having this chapter is all about.



Group selfie taken at the last meeting of the 2013-14 year, April 2014.

Find out more about our chapter – visit our Facebook page at <https://www.facebook.com/UALRACS>.

We want to spotlight YOUR student chapter! Contact Sara Hubbard ([hubbards@obu.edu](mailto:hubbards@obu.edu)).



### Science Café – Little Rock *co-sponsored by the ACS*

Science Café events host 2-3 panelists who address a monthly topic as it relates to his/her experience and expertise. After each speakers' brief (10-15 min) talk, the audience asks questions and discusses the topic. A moderator fills in the gaps and facilitates questions. The Science Café provides an opportunity to meet new people, learn new things, and discuss current scientific research and applications in plain English. Join Us!

### Upcoming Science Café Events

September 23: **Bacteria, Viruses & Yeast: Oh, My!**

October 28: **High Tech Stork: Mama Care in the 21<sup>st</sup> Century**

November 25: **Hunting the Elements: Materials Science & Geology in AR**

<http://www.sciencecafelr.com>

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### Local Events Spotlight:

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# Arkansas INBRE

## Research Conference

November 7-8, 2014

University of Arkansas

Fayetteville, AR

<http://chemistry.uark.edu/INBRE/>

### **Registration is Open!**

**Banquet Speaker:** Paul R. Selvin, Ph.D.

"Your Body is Made of Trillions of Tiny Walking Molecular Motors"

Email for more information: [INBREinf@uark.edu](mailto:INBREinf@uark.edu)

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### National ACS News

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National Chemistry Week (NCW) encourages chemists and chemistry enthusiasts to build awareness of chemistry at the local level. Local Sections, businesses, schools, and individuals are invited to organize or participate in events in their communities with a common goal: To promote the value of chemistry in everyday life. The NCW 2014 theme is "The Sweet Side of Chemistry—Candy", showcasing the chemistry involved in candy and confections.

<http://www.acs.org/content/acs/en/education/outreach/ncw.html>

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## Southwest Regional ACS Meeting

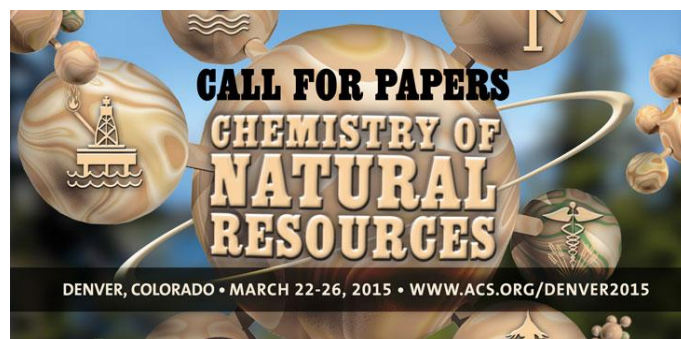


**Registration now open!**

<http://www.swrm2014.org/>

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## 249<sup>th</sup> ACS National Meeting & Exposition



### Chemistry of Natural Resources

Organizer: Dr. Robert Weber

March 22-26, 2015

Denver, Colorado

**Abstract Submission Open!**

[https://sso.acs.org/idp/default\\_login.jsp?pageURL=https://acsnm249.abstractcentral.com/login&loginStyle=normal](https://sso.acs.org/idp/default_login.jsp?pageURL=https://acsnm249.abstractcentral.com/login&loginStyle=normal)

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If you have an article or job posting for publication consideration, please send it to Sara Hubbard ([hubbards@obu.edu](mailto:hubbards@obu.edu)).

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The *Central Arkansas Chemist* is published as needed by the Central Arkansas Local Section of the American Chemical Society. Section Chair, Dr. Grover P. Miller, University of Arkansas for Medical Sciences, (501-526-6486) and the Secretary is Dr. Sara E. Hubbard, Ouachita Baptist University, (870-245-5533). Address all correspondence to the Section Secretary and send contributions in electronic form ([hubbards@obu.edu](mailto:hubbards@obu.edu)). The Central Arkansas Local Section Web site is <http://centralarkansas.sites.acs.org>.

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