

THE Central Arkansas CHEMIST



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

February 2013

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Little Rock



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Dr. Martin D. Perry, Jr.
Ouachita Baptist University

Meeting

Monday, February 25, 2013

- 5:00 pm Dinner
Cheddars
400 S University Ave
Little Rock, AR
(501) 614-7578
- 7:00 pm Program
"Red Rover, Red Rover send
Curiosity Right Over"
Todd Barber
NASA JPL senior propulsion engineer
- Location: University Arkansas – Little Rock
EIT Auditorium (Engineering and
Information Technology) on the
UALR Campus
Little Rock, AR 72205

For driving directions: centralarkansas.sites.acs.org/directions.htm

About the Speaker

Todd Barber is a JPL senior propulsion engineer, now working as lead propulsion engineer on the Cassini mission to Saturn following part-time work on the Mars Exploration Rover (MER) mission, Deep Impact mission, and the Mars Science Laboratory (MSL) mission, which landed the large rover Curiosity on the red planet on August 5th, 2012. Cassini was launched on October 15, 1997 on its two-billion-mile, seven-year journey to the ringed planet. The MER team launched launch twin rovers to the red planet in June and July of 2003, and Opportunity is still going strong nearly nine years after landing. Todd also worked as the lead impactor

propulsion engineer on Deep Impact, which successfully crashed into Comet Tempel-1 on Independence Day, 2005, at twenty-three-thousand miles per hour.

Mr. Barber worked on the Galileo project for over seven years and his primary responsibility was getting Galileo into Jupiter orbit on December 7, 1995. Todd also worked part-time on the Space Infra-Red Telescope Facility (SIRTF) mission and on the Stardust mission, as well as the Mars Sample Return mission and a Mars airplane study. Todd received NASA's Exceptional Achievement Award in 1996 for his work on Galileo. He also worked three years on the Deep Space One mission, the first NASA mission to use electric propulsion (a la "Star Trek"). This mission included flybys of a near-Earth asteroid, Braille, and a comet named Borrelly.

Mr. Barber is a native of Wichita, Kansas, and attended MIT between 1984 and 1990, obtaining B.S. and M.S. degrees in aerospace engineering, with a humanities concentration in music. He is also a composer of church choral music, with two pieces published to date. His hobbies include singing charitably and professionally, playing the piano, visiting all the U.S. tri-state corners and national parks, playing basketball (though it's been a while), and amateur astronomy.



Local ACS Section News:

The Central Arkansas Section of the ACS Awards and Recognition Banquet

Tuesday, April 23 at 6:30 pm
UALR Donaghey Student Center
Rooms A and B

This annual ceremony is held in recognition of outstanding ACS members, educators, and students for their accomplishments over the past year. We bestow awards for placement in the State Science and Junior Academy of Science Fairs. We recognize participation of students and teachers in the Chemistry Olympiad. We acknowledge outstanding science educators in High Schools, Colleges, and Universities. Lastly, we honor the service of fellow members who make the accomplishments of our local Section possible. Honorees pay no cover charge; the cost for others attendees is \$10 paid by check or cash \$10. UALR Parking is available in the nearby Parking Deck with a fee of \$1 upon leaving the deck.

Local Section Involved in Chemistry Education

As a service to our community, the officers will be organizing another professional development day for high school chemistry teachers in the Little Rock School District to enrich the exposure of students to science in the classroom. Our first effort last fall was a great success reaching sixteen educators in the district. Beth Maris, the ACS liaison to the schools, is working with the Little Rock School District to dedicate an in-service day for this effort for August 2103. The day will include sessions on ACS resources for the classroom, chemistry demonstrations, and other activities to improve science education in the Little Rock School District. We hope to learn from these efforts and expand them to other school districts to enrich science education in Arkansas.

ACS Science Coaches Program

This program encourages an ACS member to assist a teacher throughout the school year. ACS will support the effort by donating \$500 to the school for science supplies. Apply by October 30th. You can find more information about this program at:

www.acs.org/ScienceCoaches



Science Café – Little Rock
co-sponsored by the ACS

City Planning - Smoke & Mirrors?

Jim McKenzie, Exec. Director, [Metroplan, Little Rock, AR](#)
Tony Bozynsky, Director, [City of Little Rock Planning & Development, Little Rock, AR](#)
David 'Bud' Laumer, Instructor, [Urban Planning, Un Arkansas, Conway AR](#)

Tuesday, February 26, 7:00 to 9:00 pm
Vieux Carre/The Afterthought,
2721 Kavanaugh in Hillcrest, Little Rock, AR

Plan Ahead for Science Café Meetings

<u>Month</u>	<u>Topic</u>
March	Radio in the 21st Century
April	Drug Discovery & Clinical Trials
May	The Illusion of Time
June	Zero Waste - Reduce, Reuse, & Recycle
<i>Break</i>	
September	The Science of Espionage
October	Brain Training - Just Do It
November	Can You See It? Vision & Photography

<http://www.sciencecafelr.com>

About the program:

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

Local Section Call for Nominations of Officers

Be the change! Get involved in the ACS by becoming an Executive Officer. Our Section must hold officer elections by December 1, 2013. We are accepting nominations for all eligible local section members. Please send nominations to:

hendricksonhowardp@uams.edu.

Plan Ahead for Local Section Meetings

<i>Date</i>	<i>Speaker</i>	<i>Topic</i>
TBA	Chantelle Taylor	Crime

What's going on in the section? Visit our website for meeting schedule, announcements, information about Section services, and other links!

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

Ever at a loss as to what's going on in the section? Visit the section's website!

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

National ACS News:

69th Southwest Regional Meeting of the ACS for 2013

November 17 – 20, 2013

Meeting held in Waco, TX

If you have an article or job posting that you would like to have considered for publication in our newsletter, send it to hendricksonhowardp@uams.edu for review.

The *Central Arkansas Chemist* is published as needed by the Central Arkansas Local Section of the American Chemical Society. Section Chair, Josh Brown, Harding University, jbrown20@harding.edu. Address all correspondence to the Section Secretary, Howard Hendrickson, University of Arkansas for Medical Sciences, 501-603-1547, hendricksonhowardp@uams.edu. Newsletter contributions should be sent directly to the Section Secretary in electronic form. The Central Arkansas Local Section Web site is <http://centralarkansas.sites.acs.org>.



245th ACS National Meeting & Exposition for Spring 2013

Chemistry of Energy and Food

April 7–11, 2013 | New Orleans, Louisiana

http://portal.acs.org/portal/acs/corg/content?nfpb=true&pageLabel=PP_MULTICOLUMN_T5_33&node_id=879&use_sec=false&sec_url_var=region1&uid=ebef2a8b-d9da-44a5-95c8-df2f23040248



ACS Climate Science Toolkit

The fundamental science to help you understand and communicate climate science

Global climate change, whether a result of natural variability or of human activity, is a vital issue for life on Earth and involves many processes and concepts related to chemistry. Engaging with this issue in deliberative discourse with colleagues and others requires understanding the fundamental science that determines Earth's climate. This fundamental science is the core content of the ACS Climate Science Toolkit.

http://portal.acs.org/portal/acs/corg/content?nfpb=true&pageLabel=PP_MULTICOLUMN_T2_50&node_id=819&use_sec=false&sec_url_var=region1&uid=44f5af00-1783-4273-a862-77a008d4efd9