

June 2015 Newsletter

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I. “Red Wine and Mars” Science on Tap event, Thursday, June 18 in Los Alamos

Our Local Section will be co-hosting this month’s “Science on Tap” event in Los Alamos:

5:30 pm on Thursday, June 18, 2015 @ the UnQuarked Wine Room
Nina Lanza, LANL Space and Remote Sensing Group
“Red Wine and Mars”

The Curiosity rover has been exploring Mars for ~1.5 martian years (almost 3 Earth years). In this time, she has found ample evidence that her landing site at Gale Crater hosted a large lake that could have sustained life. Come to Science on Tap to listen to Nina Lanza, geochemist at Los Alamos National Laboratory, talk about the latest science results from the mission, how we drive the rover, and how the team selects thirst-quenching location names like Red Wine, Cosmo, and McSherrys.

This event will be held at the UnQuarked Wine Room (145 Central Park Square) in Los Alamos (<http://www.unquarkedwine.com/>). Our Local Section will be providing a limited number of complimentary glass of wine / non-alcoholic drink tickets to event attendees. As well there will be a limited quantity of complimentary appetizers available. Additional wine, non-alcoholic drinks, and appetizers / food choices will be available for purchase by attendees.

The “Science On Tap” series is sponsored by the Los Alamos Creative District and occurs on the third Thursday of every month and is organized by the Bradbury Science Museum. Additional information on this and other “On Tap” series is available through the Los Alamos Creative District website

(<http://www.creativelosalamos.com/>) and the Bradbury Science Museum website (<http://www.lanl.gov/museum/index.shtml>).

II. Rio Grande Symposium on Advanced Materials, October 2, 2015

The organizers of the 2015 Rio Grande Symposium on Advanced Materials have issued a call for papers. This one-day technical meeting will be held at the beautiful Hotel Albuquerque in historic Old Town Albuquerque. Student participation is encouraged. Abstracts are solicited for both oral and poster presentations in all areas of materials science and engineering, such as:

Materials for Energy Storage and Conversion	Biomaterials and Biomechanics
Ceramics and Composites	Advanced Characterization Techniques
Thin Films, Coatings, and Surface Engineering	Corrosion and Electrochemistry
Electrical, Optical, and Magnetic Materials	Materials Modeling
Materials for Radioactive and Harsh Environments	Materials Processing
Mechanical Behavior of Materials	Materials Reliability and Ageing
Microelectronics Micro- and Nano-systems	Nanostructures, Interfaces, Fabrication, and Assembly

At the core of this meeting is the Kreidl Memorial Lecture, honoring the career achievements of Norbert Kreidl, a remarkable and indefatigable glass scientist who spent his final years as a consultant based in Santa Fe, New Mexico. This year's Kreidl Memorial Lecture will be given by Prof. Michael J. Cima on "Historical Overview of 3-D Printing: Do inventors know what they are doing?"

More information on the 2015 Rio Grande Symposium on Advanced Materials is available at the following URL: <http://www.nm-materials.org/joomla/>

III. NMAS and NM EPSCoR Symposium, November 14, 2015

The New Mexico Academy of Science (NMAS) and New Mexico's Experimental Program to Stimulate Competitive Research (NM EPSCoR) are currently planning for their annual symposium on Saturday, November 14, 2015 at the Hyatt Regency in downtown Albuquerque.

Last year's conference saw the participation of more than 130 faculty, students, researchers, educators and community members.

IV. Chemistry in the Kitchen at UNM-LA Youth College (grades 4-6)

The University of New Mexico at Los Alamos Youth College will feature of summer course (July 13-17, 2015) on "Chemistry in the Kitchen" and will be taught by Kathleen Boerigter (Los Alamos High School). Students will explore science with candy chromatography, cabbage juice indicator, and how to make ice cream, as well as other fun experiments. If you have or know of a grade 4-6 student that is curious about the chemistry that happens in the kitchen with food that may be an excellent opportunity

for them. Our Local Section will be assisting through the loan of some relevant educational materials. For more information please see the following URL:

<http://losalamos.unm.edu/community-education/2015-summer-program-for-youth.html>

V. New Mexico Student Participation at ACS Denver National Meeting

Our Local Section provided partial support for the attendance of several students from New Mexico Highlands and the University of New Mexico to attend the spring ACS national meeting in Denver, CO. Several of the supported students provided feedback regarding their attendance. The following are excerpts from their provided comments:

“This conference was more than just an opportunity to present my research. It gave me the ability to speak directly to companies at the expo and the job fair to promote my abilities, create networking, and pursue internships and careers this summer and beyond. I was also able to attend both a seminar on interviewing skills and a workshop to improve my resume. There are a great many benefits offered to students at the National Conferences, but more than anything else, the ACS does a wonderful job of providing access to industry jobs and prepare us for graduation.”

“I truly had an amazing experience I never knew chemistry was so popular! The entire Downtown of Denver was teeming with chemists! I was able to meet and speak to so many interesting chemists or chemistry students and hear about what they studied or what careers they were using there chemistry degree in. I was also able to speak with them about what they struggled with when they were in college, and what they wished they had done if they had known. Much of the information that I gathered there I truly believe will help me in my future decisions.”

“Having the opportunity to finally go to an ACS national meeting broadened my view of the Chemistry field. The number of fascinating projects going on around the country was reassuring, because it is stressful being a senior in college and not knowing exactly where I will end up in my career. So it was encouraging to be able to connect with young people in the field. I presented a poster detailing my current research, which allowed me to have practice explaining my project to strangers, and this showed me that I don't quite know my research project as well as I should! This was by far my favorite part of the meeting because it helped me become a better presenter, and I was also blown away by all of the other awesome things people are doing.”

Overall attendance at the spring ACS national meeting in Denver was 13,940 of which 5, 141 were students. The spring ACS national meetings are always an excellent opportunity for students to present their research accomplishments.

VI. Local Section Nominated for ACS ChemLuminary Award

Our Local Section has been advised of its nomination for an ACS ChemLuminary Outstanding Kids and Chemistry Award. The basis for that nomination is the support of our Local Section for “CSI:

Dognapping Workshop” held at Sandia National Laboratories and which partners with multiple professional organizations. Five hundred fourth grade students were invited to see a chemistry magic show, only to find that the chemistry dog went missing. Students clear their name and are sworn in as official "Junior Scientist" who save the day by solving the mystery by analyzing clues at various hands on stations ranging from chemistry to physics. The ChemLuminary awards will next be presented at the upcoming 2015 fall ACS national meeting in Boston, MA

VII. Local Section Strategic Planning – Online Survey to be Distributed

Dr. Karen Schultz Paige, our Local Section Chair-Elect, will be convening a strategic planning session later this year to identify major initiatives to be taken during the years to come. In preparation for the strategic planning session, we will be seeking the opinion of many members like you. The online survey will take just a little of your time to complete, but will influence the outcome of the new strategic plan and shape the course of our Local Section through the coming years.

VIII. New Mexico Science & Engineering Fairs

Our Local Section has completed its 2015 efforts to recognize the next generation of chemists through sponsorship of Special Awards at the Central New Mexico, Northeastern New Mexico, and the state wide New Mexico Science & Engineering Fairs. We were able to recognize eight overall students for their accomplishments. The Local Section also sponsored the Chemistry category at the New Mexico Science & Engineering Fair.

IX. ACS Chemistry Olympiad

Four New Mexico students sat for the national qualifying exam to participate in the International Chemistry Olympiad. This exam was conducted at Clark Hall on the University of New Mexico campus and we are appreciative to the UNM Chemistry Department for providing the needed space and supplies. As well we extend our appreciation to Dr. Brenda Broers (UNM-Valencia) who administered the national exam and Dr. Kristin Omberg (LANL) who organized our Local Section participation. There were two students from Belen High School and two from Los Alamos High School taking the national exam at UNM. While all four did quite well David Gao from Los Alamos High placed at the Honors level (in the top of 142 out of more than one-thousand participants).

X. Councilor Report from ACS Spring National Meeting

The Council voted to set the member dues for 2016 at the fully escalated rate of \$162. This rate is established pursuant to an inflation-adjustment formula in the ACS Constitution and Bylaws.

Following a discussion on the revenue supporting National Meetings, the ACS Council respectfully requested that the Board of Directors delay the implementation of the technical meeting additional fee to the meeting registration fee, until the Board presents an analysis (preferably at the Boston national meeting) of the projected break even fee, including and excluding the net revenue from the National

Meeting Exposition. The intent of the proposed additional fee was to insure that the technical portion of the national meeting (separate from the associated Exposition portion) broke even financially.

The Committee on Meetings & Expositions recommended that the Early Member Registration Fee for 2016 national meetings be \$415, per the National Meeting Long-Range Financial Plan.

As part of the continuing ACS sustainability effort and to encourage the use of the ACS mobile app and online program, Committee on Meetings & Expositions has decided to discontinue free distribution of the hard copy program book starting in 2016. Those who pre-register for the meeting may purchase a copy of the program book for \$10 (pick up on site), and copies will be available at the meeting for \$20. The PDF version of the national meeting program will be more prominently displayed on the ACS website for those who would like to print portions for themselves.

The Society Committee on Education reported that more than 1,900 individuals have joined the American Association of Chemistry Teachers (AACT) which launched last year, 88 percent of whom are K-12 teachers of chemistry. The Dow Chemical Company was announced as the Sole Founding Partner of AACT with a gift of \$1 million.

XI. Local Section Officers

The following are our 2015 Local Section Officers. Please feel free to contact them for information or suggestions regarding the Local Section or ACS in general.

Position	Name	E-mail
Chair	Donivan Porterfield (LANL)	dporterfield@lanl.gov
Chair-Elect	Karen Schultz Paige (LANL)	ksp@lanl.gov
Past-Chair	Kristin Omberg (LANL)	komberg@lanl.gov
Secretary	Fu-Sen Liang (UNM)	fsliang@unm.edu
Treasurer	Andrea Ambrosini (SNL)	aambros@sandia.gov
Advisors	Steven Showalter (SNL)	skshowa@sandia.gov
	Kristin Omberg (LANL)	komberg@lanl.gov
	Rudolph Magyar (SNL)	rjmagya@sandia.gov
Councilors	Kristin Omberg (LANL)	komberg@lanl.gov
	Donivan Porterfield (LANL)	dporterfield@lanl.gov
Alternate Councilors	Ron Clark (Cycad Products)	cycadp@gmail.com
	Rudolph Magyar (SNL)	rjmagya@sandia.gov

XII. Control those ACS e-mail messages

Through the ACS web page you can unsubscribe or even subscribe to more e-mail messages from Society offices regarding various activities and membership benefits. Once you have logged into the ACS web site using your member information you will notice a small link on top right hand that is labeled as "My Account". Clicking the "My Account" will open up a page with a number of additional links among which you will find "Manage Email Subscriptions". Clicking that link will

present a web page through which you can control your receipt of a number of different Society offices e-mail messages.

XIII. Changes of Address

The distribution of our Local Section newsletter is dependent on accurate e-mail and US mail addresses being supplied to the ACS. Address changes can be submitted to ACS through the following means: service@acs.org, (800) 227-5558, or logging in to www.acs.org.