



THE OCTAGON

847th LVACS Meeting:
Thursday, February 27, 5:30-9 PM
Alvernia University

High School Teachers' Night

Building a Bridge to Make a Connection!

Building a Bridge to Make a Connection: An interactive discussion on how to make those connections between middle/high school and college. These connections can be from various outlets such as community service/outreach projects, to college level scientific applications and even data sharing on joint projects/research. The discussion will be lead by Science Association members and various faculty from the sciences.



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MEETING DETAILS:

Social: 5:30pm-6pm, Student Center Private Dining Room

Dinner: 6pm-7pm

Meeting: 7pm-9pm, Bernardine Hall Room 002

The Student Center Private Dining Room is located on the first floor and is just inside the doors on the right as you enter the building from parking lot B. Bernardine Hall 002 is on the ground floor of the building. If you enter Bernardine Hall by exiting the Student Center at the Bookstore, turn right once you enter the building and it will be the last room on the right.

Menus: Social Hour- Cheese/Cracker Assortment, Water/Soda/Coffee/Tea

Dinner- Vegetable Lasagna, Chicken Prima Rosa, Caesar Salad, Vegetable, Rolls, Dessert and Water/Soda/Coffee/Tea

Cost: \$22, half price for students, retired or unemployed members, high school teachers are guests of the section.

RSVP to Kevin Burns, kevin.burns@alvernia.edu, 610-790-2865 by 2/18/14 @6pm

Directions: <http://www.alvernia.edu/about/reading/directions.html>



A MESSAGE FROM THE CHAIR

Greetings Colleagues,



I hope you joined us and enjoyed the Webinar "The ACS Network and YOU!" as our January meeting. Many thanks goes out to Septodent for sponsoring this webinar for our members and allowing us to

continue our January webinar series. I invite you to sign in on the ACS Network and join our group. We would love for you to provide feedback about the webinar, and how we can use the ACS Network to better serve our section and getting information out to you.

Even though winter is keeping a cold grip on us all, I would like you to know that things are heating up for our section. I am pleased to announce the Committee Chairs for our section and would like to thank them for their work in the upcoming year.

Lorena Tribe - Awards Committee
Lindsey Welch - National Chemistry Week
Sherri Young - Women Chemist Committee
Kelley Caflin - Young Chemist Committee
Katie Amaral - Membership Committee
Lee Silverberg - Safety Committee
Nigel Sanders - Strategic Planning Committee
Chris Spedaliere - Government affairs

We are still looking for section members to volunteer and join these committees. We are in need of a Chair for the Chemist Celebrate Earth Day, and our Public Relations committees. We would consider Co-Chairs if two people are interested and willing, so if any of these committees interest you please consider serving and helping to build this section's activities. The Executive Committee will have a strategic planning workshop this month to assess where we are as a section. We will be considering the three main goals of our strategic plan, and how we should be moving forward as a section. We would love for you to reach out to any EC member with any concerns, suggestions or questions you have. Items will be placed on the agenda and discussed, and I will be providing feedback at the February monthly meeting and in my next letter.

Our February meeting will be, High School Teachers night on the 27th at Alvernia University. Please consider sponsoring a high school science teacher and bringing them to the meeting as your guest. March's meeting will be at Muhlenburg on the 27th and then in April we will be at DeSales University on the 24th for Senior Awards Night and the Undergraduate Research Poster Session. I look forward to meeting and getting to chat with you at these meetings.

Cheers,

Jeanne Berk, PhD
Chair LVACS



LVACS MEMBER OF THE MONTH

Congratulations to **Dr. Kelley C. Caflin**, the LVACS Member of the Month for January, 2014!

Kelley has been an ACS member since 2003 and has been active in a number of leadership roles in the Lehigh Valley Section: Secretary (2011 and 2012), Nominations Committee Member (2013), Younger Chemist Committee - Chair (2014), and Women Chemists Committee - Member (2014).

Kelley started the Lehigh Valley Section's Facebook page in February 2011, in response to the goal "Improve and expand communications to our members over the next 3-5 years" of the Section's Strategic Plan. The page has steadily increased the number of members who can access information about events and opportunities from a variety of electronic devices. At this moment the page has 141 "likes"!

Kelley has a Bachelors of Science in Chemistry and Secondary Education, with Minors in Mathematics and Psychology, from Cedar Crest College, and a Masters and PhD. in Analytical Chemistry from Lehigh University. She is a driven analytical chemist with a proven ability to analyze and interpret data obtained through instrumentation, skilled at planning and execution of experimental designs for problem solving. Kelley has advanced experience with nuclear magnetic resonance spectroscopy, and is able to handle and analyze data utilizing various chemometric techniques.

Kelley is currently a chemist for the US Army at the Picatinny Arsenal in

New Jersey. She is the Lead Analytical Chemist for the Explosives Research Branch. She has published several articles and delivered presentations related to stockpile reliability, and is a member of the National Rifle Association, the National Defense Industry Association, Women in Defense and the Materials Research Society. In her spare time Kelley is also an avid runner having completed 30 races in 2013 including her first half-marathon.

Submitted by Lorena Tribe, LVACS Awards Committee Chair

LVACS COMMITTEE CHAIRS

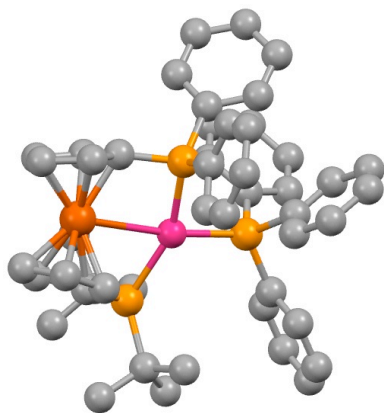
Awards - Lorena Tribe
Chemistry Olympiad - Elaine Gannon
Foundation Award - William Miles
Government Affairs - Chris Spedalieri
Membership - Katie Amaral
National Chem Week - Lindsey Welch
Octagon Editor - Michelle Jones-Wilson
Professional Relations - Jeanne Berk
Organic Chem Scholarship - John Freeman
Safety - Lee Silverberg
Long Range Planning - Nigel Sanders
Webmaster - Michelle Jones-Wilson
Women Chemists - Sherri Young
Younger Chemists - Sara Hayik

*Thanks to our volunteers
for all that they do!*



AREA STUDENT AND FACULTY MENTOR RECOGNIZED

At the ACS National Meeting in Indianapolis, Chelsea Mandell (Lafayette College class of 2012) and Chip Nataro (Professor of Chemistry at Lafayette College) were awarded the ACS Division of Inorganic Chemistry (DIC) Award for Undergraduate Research. The award is given "To recognize the collaborative research of an outstanding North American undergraduate student and her or his preceptor(s) in the field of inorganic chemistry, as broadly defined." It is presented to one student and preceptor at a PUI per year. Mandell and Nataro were each presented a plaque and award by the chair of DIC, Professor Kenneth Karlin. Chelsea then gave an oral presentation entitled "Characterization and electrochemical studies of ferrocenyl phosphines" detailing the work for which she was being recognized.



Chelsea's work was part of her honor's thesis and examined compounds containing 1,1'-bis(phosphino)ferrocene ligands. While these ligands have long been of interest to the Nataro group,

Chelsea examined a different binding mode of these ligands. The ligands typically coordinate as bidentate ligands to a second metal center using the two phosphorus atoms. In Chelsea's work, the ligands are bound to a second metal center in an uncommon tridentate fashion. In this binding mode the two phosphorus atoms and the iron center of the ferrocene backbone interact with the second metal center. In addition to the synthesis and characterization of these compounds, Chelsea examined their electrochemical properties. This work was recently published in a special issue of *Organometallics* entitled: Ferrocene - Beauty and Function (*Organometallics* 2013, 32, 5966).

In addition to this work, Chelsea co-authored two additional papers and a book chapter during her time at Lafayette. She has also given oral presentations at two other ACS national meetings. Prior to graduation, she was also awarded the ACS DIC Undergraduate Award in Inorganic Chemistry. Chelsea is currently pursuing her Ph.D. in inorganic chemistry under the guidance of Professor Oleg Ozerov at Texas A&M University.

**Upcoming Meetings:
March 27,
Muhlenburg College**

**April 24,
DeSales University
(Undergraduate Awards and
Student Research Poster session)**



2014 LVACS OFFICERS

Chair: Jeanne Berk
Dept. of Chemical and
Physical Sciences
Cedar Crest College
Allentown, PA 18104
610-606-4666 ext 3507
jrberk@cedarcrest.edu

**Immediate Past Chair:
Tara Baney**
Novartis Pharmaceuticals
Corporation
Oncology Translational
Medicine
One Health Plaza,
Bldg 335, Room 2111D
East Hanover, NJ 07936
tsbaney@gmail.com

Chair Elect: Greglynn Gibbs
Penn State Berks
204 Luerssen Building
Tulpehocken Road, P.O. Box
7009, Reading, PA 19610
(610) 396-6363
gdw104@psu.edu

Treasurer: Carol Stein
Copperhead Chemical Co.
120 River Rd
Tamaqua, PA 18252
(570) 386-6104

Secretary: Angie Smith
Lehigh University
8510 Putnam Ct
Breinigsville, PA 18031
smithan05@gmail.com,
814-934-6163.

Councilor: Carol Baker Libby
Moravian College,
Bethlehem, PA 18018
(610) 861-1629
cblibby@cs.moravian.edu

Councilor: Pamela D. Kistler
Cedar Crest College,
Allentown, PA 18104
pdkistler@cedarcrest.edu
(610) 437-4471 x 3508

Alternate Councilor:
John Freeman
East Stroudsburg University
East Stroudsburg, PA 18301
(570) 422-3446
jfreeman@po-box.esu.edu

Get the Word Out!

Are you volunteering in your community? Do you have any upcoming chemistry or science events planned?

Help is available to help get yourself, your volunteers and your event spotlighted at your college and/or in the local and regional news. Email news to the Octagon Editor at lvacs@verizon.net

Nothing says "Thank You" like well deserved recognition!

