Next Meeting:

888th Meeting of the LVACS
Thursday, April 11
Muhlenberg College

Speaker: Dr. Andrew M. Rappe
“Innovating our way out of our energy and climate woes”

Location: Muhlenberg College
5:30 - Reception Seegers Union 111
6:00 - Dinner Seegers Union 111
7:00 - Talk Trumbower Science Building 130

Menu: Buffet - Caesar Salad with House-made Croutons, Signature Bread and Butter, Braised Beef Sicilian, Chicken Florentine, Gnocchi with Asparagus, Shiitake, Pearl Onion, Tomato, and White Wine Pesto Broth, Mashed Potatoes, Sautéed Zucchini and Squash, Chocolate Ganache Tart with Oreo Crust

RSVP by April 8 to Maria Eden (mariaeden@muhlenberg.edu)

Directions: https://www.muhlenberg.edu/main/wescoe/aboutus/directions.html
Campus Map: https://www.muhlenberg.edu/campus-map/
**Speaker:** Andrew M. Rappe is the Blanchard Professor of Chemistry and Professor of Materials Science and Engineering at the University of Pennsylvania. He received his A. B. in “Chemistry and Physics” summa cum laude from Harvard University in 1986, and his Ph. D. in “Physics and Chemistry” from MIT in 1992. He was an IBM Postdoctoral Fellow at UC Berkeley before starting at Penn in 1994.

Andrew received an NSF CAREER award in 1997, an Alfred P. Sloan Research Fellowship in 1998, and a Camille Dreyfus Teacher-Scholar Award in 1999. He was named a Fellow of the American Physical Society in 2006. Rappe was awarded the Weston Visiting Professorship at the Weizmann Institute of Science in 2014, and the Ziqiang Professorship at Shanghai University in 2016. He was awarded the Humboldt Research Award in 2017, and the Cheney Fellowship at the University of Leeds in 2018. Andrew is one of the two founding co-directors of the VIPER honors program at Penn, the Vagelos Integrated Program in Energy Research.

Andrew has published more than 280 peer-reviewed articles. In recent years, he has become a leader in the theory of hybrid organic-inorganic perovskites and of topological materials. He has championed the use of the bulk photovoltaic effect for solar energy harvesting, and he has made seminal contributions to the theory of ferroelectric materials and to topological physics.

**Title:** Innovating our way out of our energy and climate woes

**Abstract:** Our country and the world face serious challenges, requiring significant changes in how we capture, harness, and convert energy for use in industry and at home. There are various exciting developments now under way, through which scientists and engineers can develop the new knowledge and enable the new discoveries that will make these changes possible.

In this talk, I will present the idea of computational materials design. In this approach, scientists characterize a materials need, and develop understanding of how existing materials accomplish a task. Then goals are set for the development of new materials that offer superior performance, or for the discovery of new principles that enable new strategies for reaching the goal. I will present scientific insights and new computational approaches in the areas of photovoltaic conversion of light to electricity and catalytic conversion of low-energy molecules to clean fuels.

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**Spring is Here -**  
**Summer is just around the corner**  
It’s time to Play Ball!

LVACS at the Iron Pigs  
July 25th 7:05 pm.  
Tickets $20  
contact Lindsey Welch  
lawelch@cedarcrest.edu
Undergraduate Research
Poster Session and Senior Awards
Sponsored by
The Lehigh Valley Section of The American Chemical Society
Thursday, April 18, 2019
Lehigh University
STEPS Building Concourse
1 W Packer Ave
Bethlehem, PA
5:00-6:00 PM

Who may participate?
Undergraduates attending a college or university within the Lehigh Valley section of the ACS. Research may have been done at the student’s home institution with a chemistry or chemical engineering faculty member or during a summer research experience elsewhere.

To participate:
Students wishing to present their work must themselves submit an abstract at https://goo.gl/forms/jHGmByJ99yeg8Or02 by April 8, 2019. Please email lvacsls@gmail.com with any questions. Early submission is encouraged.

Abstract requirements:
(will be filled out in Google Forms at https://goo.gl/forms/jHGmByJ99yeg8Or02)
Title (in sentence case), Authors names and institutions, Abstract text (maximum of 150 words)

Returning this year!
Students may be considered for an oral presentation following the poster presentation. Please note your interest to be considered for this option on the form and those chosen will be notified ASAP.

Other requirements and information:
ALL students must register by April 5, 2019 via https://goo.gl/forms/jHGmByJ99yeg8Or02 but only one per poster need submit an abstract. All other attendees must register by April 12th, 2019.

- The poster session is held before the oral presentation and our annual senior awards presentation.
- Poster presenters will be provided pins and poster board. Easels will be provided for displaying the posters.
- Lehigh University encourages persons with disabilities to participate in its programs and activities. If you anticipate needing any type of accommodation, have any questions regarding physical accessibility or would like more information, contact Denise Beautreau deb313@lehigh.edu
LVACS Scholarships

2019 Foundation in Chemistry Award

The Lehigh Valley Section of the American Chemical Society (LVACS) is delighted to announce the 2019 Foundation in Chemistry Award. The award, designed to promote the chemical sciences at the college level, will be given to a high school senior who will be majoring in chemistry, biochemistry, or chemical engineering and attending a college or university in the Lehigh Valley Section. This scholarship award consists of $1000 and a plaque, which will be presented to the winner at the September meeting of the Lehigh Valley Section of the American Chemical Society. We have enclosed the guidelines for the award and the application materials. Please post the flyer and feel free to make additional copies as needed.

As an ACS member please share this information with parents, students, and guidance counselors. The four-part application should be completed and submitted by May 1, 2019. We appreciate your help and thank you for publicizing the 2019 Foundation in Chemistry Award. We look forward to many worthy applications.

Instructions: The Foundation in Chemistry Award is sponsored by the Lehigh Valley Section of the American Chemical Society (LVACS) to promote the chemical sciences at the college level. This award, consisting of $1000 and a plaque, will be awarded annually to a high school senior within the membership boundaries of the LVACS (Lehigh, Northampton, Berks, Monroe, Schuylkill, and Carbon Counties in PA, and Warren County in NJ) to attend a college in the Lehigh Valley area (eligible colleges are listed below) and intending to major in chemistry, biochemistry, or chemical engineering. The $1000 check will be given to the student for defraying college expenses.

The applicant for this award must have completed one year of college preparatory chemistry, four years of mathematics, and one semester of college preparatory physics by high school graduation.

The application, which is attached to these instructions, will be evaluated on merit by the LVACS HS Scholarship Committee. The completed four-part application (nomination letter from your chemistry teacher, the application form, transcript, and your essay) must be postmarked by May 1, 2019 and mailed to:
John Freeman, Chair of the LVACS HS Scholarship Committee
220 W Pierce, Easton, PA 18042
Please direct any questions about this award to: John Freeman jcf2@rcn.com

Eligible Colleges for Awardees:

- Albright College
- Alvernia College
- Cedar Crest College
- DeSales University
- East Stroudsburg University
- Kutztown University
- Lafayette College
- Lehigh Carbon CC
- Lehigh University
- Moravian College
- Muhlenberg College
- Northampton County CC
- Penn State-Berks
- Penn State-Lehigh Valley
- Penn State-Schuylkill Valley
- Reading Area CC
- Warren County CC
2019 Foundation in Chemistry Award
Nomination Form

(To be filled out by the student)
Student’s Name: _______________________________
Chemistry Teacher’s Name: _______________________________
e-mail address: _________________________________________
School Address: _________________________________________

I hereby  ____ waive my right of access to this recommendation
____ do not waive my right of access to this recommendation

(To be filled out by the teacher)
Please submit a letter of recommendation (as an attached letter) addressing such issues as the above student’s knowledge of chemistry and the sciences, initiative, leadership potential, and potential as a student in the chemical sciences at college. Any additional information about the student’s financial need would be appreciated; we will consider financial need in the event we judge more than one student to be equivalent on the basis of merit.

Deadline: May 1, 2019 (postmarked)

Trinity College Seeking Lab Coordinator and Visiting Lecturer

Trinity College is searching for a new lab coordinator for our organic labs and a visiting lecturer (with potential for long term renewal) to teach intro, organic, and occasionally inorganic.

https://trincoll.peopleadmin.com/postings/1871

https://trincoll.peopleadmin.com/postings/1872
2019 Foundation in Chemistry Award
Application Form

(To be filled out by the student)

Full Name: _________________________________
Home Address: _________________________________

_________________________________
_________________________________
Home Phone #: __________________
e-mail address: ___________________
High School: _____________________________________
Names and addresses of your legal guardians:

_________________________________
_________________________________

College you will attend: _________________________________
Proposed major degree program: _________________________________

Please attach an official transcript with your most recent grades.

Please write and attach an essay (250 words maximum) on why you have chosen to study the chemical sciences in college.

Deadline: May 1, 2019 (postmarked)

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EMPOWERING WOMEN IN ORGANIC CHEMISTRY

Friday, June 28, 2019, University of Pennsylvania, Philadelphia, PA

Recent data and publications show a persistent lack of women pursuing and maintaining careers in Organic Chemistry. Evidence indicates that providing an opportunity for women to meet, network, and share scientific and career strategies is one effective approach to encourage women to enter and maintain careers in science. To meet this need, the first annual Empowering Women in Organic Chemistry Conference will be on Friday, June 28, 2019 at the University of Pennsylvania, Philadelphia, PA. This meeting is for women (students, post-docs, faculty, and professionals) who work or plan to work in the field of Organic Chemistry broadly defined, from all types of institutions (academic, industry, biotech, non-profit and government). The meeting will consist of both science and career topics to provide support and guidance for the next generation of women chemists, as well as provide opportunities for professionals to learn up-to-date science, network, and share experiences. This one-day event will include talks from organic chemists in industry and academia, a dynamic poster session, panel discussions, and many opportunities for networking. Professor Geraldine (Geri) Richmond (University of Oregon), past-president of AAAS, National Medal of Science awardee, and co-founder of COACh, will give the keynote lecture. Graduate students, postdocs, faculty, and professionals are invited! See ewochem.org/EWOC for more information and to register.

Christian S. Hamann, Ph.D., Albright College
Organic Chemistry Scholarship

The Lehigh Valley Section of the American Chemical Society will award its annual Scholarship for Organic Chemistry this spring! To be eligible, students should be below the junior level, currently enrolled in organic chemistry at an institution in the section, and a chemistry, biochemistry, or chemical engineering major. The competition entails taking the ACS Organic Chemistry Examination (45%), a brief letter of recommendation from the student’s organic chemistry professor (10%), and an essay on a topic in organic chemistry (45%). The value of the scholarship is $1000. Additionally, the top essay will receive $100. Details about the exam, letter, and essay follow below. Students should indicate their interest in the scholarship by April 26th, 2019, to Dr. Michael Bertucci (bertuccim@moravian.edu).

ACS Organic Chemistry Examination: The exam will be administered on Saturday, April 27th, 2019, at Moravian College, Bethlehem, PA from 9:00-11:00 AM. Students should report to the entry foyer of the Collier Hall of Science, which is on the Main Street Campus. For driving directions and campus map see https://www.moravian.edu/about/campus. Juice and bagels will be available at 8:45 AM.

Essay: The student should address the impact of an organic molecule or process in organic chemistry on society and his or her personal interest in it. The essay should be written at a level to interest and educate a general chemist who has completed sophomore-level organic chemistry. If a molecule is chosen, the synthesis, including key mechanistic features and structural analysis, should be covered. If a process is chosen, the physical and chemical basis for its success should be explained. Appropriate use of structures to facilitate understanding of the chemistry is expected. An additional page with references must be included. References should follow the guidelines as delineated in the ACS Style Guide. The essay should run from 1000 to no more than 1200 words in Times New Roman 12-point font with one-inch margins on all sides. The references and figures are not considered in the overall word count. Each page should have a header with the student’s last name, brief essay title and page number. The winning essay after editing may be published in a future issue of the Octagon.

The essay will be rated on:
* Appropriate depth of coverage of the molecule or process
* Appropriate depth of coverage on the impact on society and student’s interest
* Ease of reading, including grammar, spelling, and logical flow of the material
* Appropriate use of scholarly references & formatting.

Submission: The essay should be submitted electronically to: bertuccim@moravian.edu by the student before the exam begins on April 27th. The essay can be submitted at any time before the day of the exam; if you have a busy semester coming up, you are encouraged to get started early!

Letter of Recommendation: Professors writing a letter of recommendation on behalf of a student who is applying for the Lehigh Valley ACS Scholarship should speak to the student’s skills in lecture and laboratory in Organic Chemistry I and Organic Chemistry II. Please provide the course grade for Organic Chemistry I and comment on performance on written exams, proficiency in organic lab, and participation in course-related activities. If possible, address the student’s quantitative skills by commenting on her or his performance in quantitative analysis or its local equivalent. The letter of recommendation must be signed on institution letterhead and submitted to bertuccim@moravian.edu by the student’s professor before the exam begins on April 27th.
Call for Award Nominations  (deadline for nominations is April 20)
The ACS Division of Chemical Education region awards for excellence in high school teaching

To recognize, encourage and stimulate outstanding teachers of high school chemistry in the Middle Atlantic Region. Monetary award.

The E. Emmet Reid Award in Chemistry for Teaching at Small Colleges in the ACS Middle Atlantic Region
To recognize, encourage and stimulate high quality teaching and research at small colleges. Monetary award.

The Partners for Progress and Prosperity Regional Award
To encourage and recognize successful and exemplary partnerships within the Mid Atlantic Region. These partnerships can be between industry, academia, government, small business and/or other organizations. Monetary award.

The E. Ann Nalley Middle Atlantic Volunteer Service Award
To recognize the volunteer efforts of individuals who have served the American Chemical Society, contributing significantly to the goals and objectives

Details may be found at  https://marm2019.org/awards/
Chemagination Competition

Dear High School Teachers,

The Lehigh Valley American Chemical Society (LVACS) will be holding a Chemagination Competition. Chemagination is a great learning experience for students. In addition to increasing their knowledge of science and chemistry, they can improve their creative, teamwork and public speaking skills. Such skills will serve them well in their future careers.

High school students are asked to imagine that they are living 25 years in the future, 2044 and are writing for ChemMatters, a magazine for high school students that focuses on the role of chemistry in everyday life. The editor chooses them to them to write the cover article for the next issue of the magazine describing a recent breakthrough or innovation in chemistry and its applications that improve the lives of those living in 2044. Along with the article they have the honor of designing the magazine’s cover. The subject of the article is: “Describe a recent breakthrough or innovation in chemistry (and/or its applications) that has improved the quality of people’s lives today.” The article must be written to fit in one of four categories: Alternative Energy, Environment, Medicine/Health, or New Materials.

The local section competition will be completely electronic. Teams should submit their articles and cover design to LVACS Competition @yahoo.com by May 1, 2019. The articles will be judged based on the MARM 2019 rules. Please refer to the following pages in this issue of the Octagon for the official rules or see marm2019.org/chemagination/.

The winners of the LVACS local section competition will advance to the regional meeting, MARM 2019 At the University of Maryland Baltimore campus on June 1 from 12:00 Noon to 5:00 PM. The Lehigh Valley section will provide up to $400 for documented travel expenses per team. If a first place winning team chooses not to participate, a second place team may serve as an alternate.

The regional competition will be judged on a poster session, in addition to the article, followed by a presentation or other activity for the students and the award ceremony. Articles for the MARM 2019 Chemagination Contest must be submitted by May 22.

KEY DEADLINES
May 1       Teams submit their articles for the LVACS competition.
May 15      Teams notified of placing
May 22      Local Section Winning Teams submit their articles for pre-judging to MARM 2019.
June 1      MARM Chemagination Competition takes place at Hershey Lodge, Hershey, PA.

Please send entries and questions to: LVACSchemagin@gmail.com
2019 MARM CHEMAGINATION DESCRIPTION AND RULES

CONTEST OVERVIEW

For this event, high school students are asked to imagine that they are living 25 years in the future and have been invited to write an article for ChemMatters, a magazine for high school students that focuses on the role of chemistry in everyday life. The subject of the article is: "Describe a recent breakthrough or innovation in chemistry (and/or its applications) that has improved the quality of people’s lives today." To view a sample ChemMatters magazine visit acs.org, and look under Education: [http://www.acs.org/content/acs/en/education/resources/highschool/chemmatters.html](http://www.acs.org/content/acs/en/education/resources/highschool/chemmatters.html).

In addition to the article, students are asked to design a cover for the magazine. The article must be written as if the student is living in the year 2044, looking back at innovations that have occurred since 2019. The innovation must fall into one of the following categories:

- Alternative Energy
- Environment
- Medicine/Health
- New Materials

A few examples of areas where development is expected are: nanotechnology, energy efficiency, pollution prevention, green chemistry, sustainability, intelligent devices for sensing, proteomics, climate models, biopharmaceutical therapies, medical devices and/or implants and new energy sources.

Evaluation of the entry is based upon:
(1) the written article which is submitted in advance,
(2) the presentation of the innovation on a self-standing display and
(3) knowledge of and soundness of the science as demonstrated in interviews with judges (much like science fair judging).

RULES

ARTICLES must:
- be written by a team of two or three students; each student may be on only one team.
- be about 1000 words (figure captions are not included in the limit).
- present the chemistry/scientific concepts/ideas/principles behind the innovation.
- describe the innovation and indicate how it has improved people’s lives.
- present a “history” of the changes that had to occur over the prior 25 years to develop this innovation.
- include drawings, diagrams, illustrations and descriptions of the chemistry and any technology involved in all key aspects of the innovation.
- cite a minimum of three technical references.
- include a cover design for the magazine. The cover design can be an original computer graphic or a free-hand drawing.

DISPLAYS must:
- be 24” deep, 40” wide and 48” tall or less, and be able to sit on a table, much like at a science fair display.
- include the cover of the magazine.
- be a visual representation of the article’s content with a minimum of text.
- include a list of references cited.
ATTENDANCE:
• At least one member of the team must attend the contest to present the display and interview with the judges to be eligible for prizes.

SCORING:
• Winners are selected by the judges based on the quality of the article and display, and the quality and understanding of the science of the innovation.
• Criteria for scoring include scientific thought, creativity, clarity, thoroughness and teamwork.

ELIGIBILITY/REQUIREMENTS:
• Each local section can submit up to four entries (1 per category).
• All students must be currently enrolled in an accredited high school or home school and be taking or have recently completed a grades 9-12 science class.
• Students and their parents are responsible for transportation to and from the meeting site.
• All entries become the property of the ACS and will not be acknowledged or returned.
• The ACS, its agents and contractors, are not responsible for lost, late, misdirected, or postage-due entries.
• Acceptance of the prize constitutes consent to use the winners’ names, likeness and entries for editorial, advertising, and publicity purposes.
• Prizes are not transferable.
• Taxes, if any, are the sole responsibility of the winner.
• Participants will be asked to provide a Photo Release Form signed by a parent or guardian prior to attending the contest.

KEY DEADLINES
March 15 Local ACS Sections notify the 2019 MARM Chemagination co-chairs of their intent to participate in the 2019 MARM Chemagination Competition.

May 1 Local ACS Sections submit their estimate of the number of teams they will be sending to the 2019 MARM Chemagination Competition.

May 15 Local ACS Sections confirm the number of participating teams and submit the article titles and contact information for each student. (The submission process will be announced at a later date.)

May 22 Teams submit their articles for pre-judging.

June 1 The 2019 MARM Chemagination Competition takes place during MARM 2019 at University of Maryland, Baltimore County.
2019 CCEW Illustrated Poem Contest
Take Note: The Chemistry of Paper

The Lehigh Valley Local Section of the American Chemical Society (ACS) is sponsoring an illustrated poem contest for students in Kindergarten through 12th grade.

Contest Deadline: Monday, April 29, 2019

Prizes: ACS-themed Prizes

Contact: Dr. Lindsey Welch (lawelch@cedarcrest.edu)

Winners of the Lehigh Valley Local Section’s Illustrated Poem Contest will advance to the National Illustrated Poem Contest for a chance to be featured on the ACS website and to win prizes!

Write and illustrate a poem using the CCEW theme, “Take Note: The Chemistry of Paper.” Your poem must be no more than 40 words and in the following styles to be considered:

**HAIKU - LIMERICK - ODE - ABC POEM - FREE VERSE - END RHYME - BLANK VERSE**

Possible topics related to paper chemistry include:

- Bioplastics
- Cellulose
- Fiber
- Lignin
- Plastic
- Polymer
- Pulp
- Slurry

Entries will be judged based upon:

- Artistic Merit - use of color, quality of drawing, design & layout
- Poem Message - fun, motivational, inspiring about yearly theme
- Originality/Creativity - unique, clever and/or creative design
- Neatness - free of spelling and grammatical errors

Contest rules:

- All poems must be no more than 40 words, and in one of the following styles to be considered: Haiku, Limerick, Ode, ABC poem, Free verse, End rhyme, and Blank verse.
- Entries are judged based upon relevance to and incorporation of the NGW theme, word choice and imagery, colorful artwork, adherence to poem style, originality and creativity, and overall presentation.
- All entries must be original works without aid from others. Poems may be submitted by hand on an unlined sheet of paper not larger than 11” by 14” or scanned and sent via email. Illustrations may be created using crayons, watercolors, other types of paint, colored pencils, or markers. The illustration may also be electronically created by using a digital painting and drawing app on a computer, tablet, or mobile device.
- The text of the poem should be easy to read and may be typed before the hand-drawn or digital illustration is added, or the poem may be written on lined paper, which is cut out and pasted onto the unlined paper with the illustration.
- No clipart or unoriginal images can be used.
- Only one entry per student will be accepted; all entries must include an entry form. If the illustration is created using a digital painting or drawing app, the name of the program must be included on the entry form.
- All illustrated poems and/or digital representations of the poems become the property of the ACS.
- Acceptance of prizes constitutes consent to use winners’ names, likenesses, and entries for editorial, advertising, and publicity purposes.
## 2019 LVACS Officers

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<tr>
<th>Role</th>
<th>Name</th>
<th>Contact Information</th>
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<tr>
<td>Chair:</td>
<td>Denise Beautreau</td>
<td>General Chemistry Laboratory Manager</td>
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