

THE OCTAGON



Volume 94, No. 6, September 2011

Lehigh Valley Section of the American Chemical Society

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Next Meeting

Tuesday, October 8, 2011
Penn State Berks

Date: Tuesday, October 4th, 2011 @ 6:30 pm

Location: Penn State Berks Thun Library, Room 145

Dinner: \$25 per person - \$12.50 for students

Menu: Grilled Herb Chicken, Linguini with Roasted Vegetables, Broccoli, Quartered Red Skinned Potatoes, Side Salad, Rolls, and Fresh Harvest Apples for dessert

RSVP: Greglynn Gibbs, gdw104@psu.edu

Deadline: Tuesday, September 20, 2011

Directions to Penn State Berks can be found at: <http://www.bk.psu.edu/Information/directions.htm>

Topic

Revolutionizing Education Through Blended Design

Blended learning offers possibilities for improving student learning by combining the best of on-line learning with traditional face-to-face instruction. Many blended learning projects are motivated by a

desire to reduce class time but one of the exciting aspects of blended courses is the potential to increase student learning. General Chemistry I was redesigned as a blended course at Penn State Berks five years ago. Since then, over 20 different sections—every section offered during that time—have been taught using the blended approach with an improvement in student success increasing from just above 50% (students finishing the course with a 'C' or better) to over 70%. The presenters will describe their journey from conception through implementation and analysis. Time will be spent examining the various aspect of the course site on ANGEL, Penn State's Course Management System.

Speakers: Katie Amaral and Ike Shibley

Katie Amaral arrived at Penn State in 2005 upon graduation from the University of Florida with a PhD in Biochemistry. Her dissertation focused on collaborative learning in general chemistry and her work at Penn State focuses on chemical education. Katie teaches General Chemistry I lecture and laboratory, Organic Chemistry lecture and laboratory, and a course each semester for chemistry peer mentors. Her most recent work is focused on blended learning and peer mentoring.

Ike Shibley arrived at Penn State in 1996 upon after graduating from East Carolina University with a PhD in Biochemistry. He gradually switched from bench science to pedagogical research and now devotes almost all his scholarly efforts to pedagogy. Ike teaches a wide variety of chemistry and biochemistry courses. He regularly consults in the US and Canada about blended learning in higher education.

2011 Fall LVACS Meetings

November 1, Northampton Community College

December 1, Lehigh University

New Bylaws !

New Bylaws for LVACS have been proposed. The current bylaws and the proposed bylaws have been appended to this newsletter. Voting will occur at the October meeting. Please plan on attending this important meeting.

Message from the Chair Elect

The International Year of Chemistry is in full swing, and I look forward to hearing from you to add your unique celebrations to the LVACS data base.

This summer Science Cafés were organized by Lorena Tribe on the chemistry of water. Prof. Christian S. Hamann, Ph.D, an Associate Professor of Chemistry & Biochemistry at Albright College and Ms. Kate O'Brien, a Watershed Specialist/Environmental Educator with the Berks County Conservation District, spoke about aspects of water in our lives and in the environment. The

audiences were excited to meet with scientists, and also to learn about the Global Water Experiment. We are grateful to Harmony Café of West Reading, the GoggleWorks in Reading, and Barnes & Noble of Wyomissing for hosting these events.

The Lehigh Valley Local Section recently was granted a Bridging the Gap Nano-Grant for Celebrating IYC 2011. Ms. Greglynn Gibbs will be running the program “Chemistry: Our health, our future!” at the Berks campus of The Pennsylvania State University on Saturday, October 22, 2011, from 9:00 AM to 3:45 PM. Girls from kindergarten to 12th grade will explore the positive impacts of chemistry as it relates to keeping us healthy through proper nutrition, hygiene and medicine. Ms. Gibbs may be contacted at 610 396 6363 and by email at gdw104@psu.edu

In addition, the American Chemical Society’s Division of Analytical Chemistry awarded 20 grants to support outreach projects that will inform the public as well as the chemistry community about the significance of analytical chemistry for the IYC themes of environment, energy, materials, and health. LVACS member Ms. Greglynn Gibbs obtained one of these grants for her program “Oil and Water Don’t Mix” to be held at the Berks campus of The Pennsylvania State University.

The Octagon and the LVACS Facebook page are great venues to communicate your International Year of Chemistry programs. Please share!

Respectfully submitted by Lorena Tribe, LVACS IYC 2011 Coordinator.

Call for Nominations

Nominations for the offices of chair elect, secretary, treasurer and councilor for 2012 are being accepted. The slate of candidates will be presented in the November Octagon and voting will occur at the November meeting at Lehigh University

Lehigh Valley Section - Society of Plastics Engineers

The Lehigh Valley Section of the Society of Plastics Engineers will be convening a half day conference on the topic of **“Plastics Recycling – Entrepreneurial Opportunities”**

When: Tuesday, October 18, 2011

Where: Northampton Community College, Bethlehem, PA

Time: Technical Program: 1:30 PM to 4:45 PM

Networking Reception: 5:00 PM to 6:00 PM

Presenters:

Alan LaFiura from UltraPoly Corp., Portland, PA

Naji Khoury from Temple University, Philadelphia, PA

Patrick Kelley from Waste Not Technologies, LLC, Saylorsburg, PA

HimanshuPandya from Pandya Composite Wood, Johnstown, PA

Registration Fees: Students with valid ID \$25
All others \$50

Pay at the door; cash or check; no credit cards!

SPONSORS

ETAC at Northampton Community College, Bethlehem, Pa; info@etctr.com

Plastics Manufacturing Center at Penn College, Williamsport, PA; pmc@pct.edu

Councilors' Report

Submitted by Carol Libby

Pam Kistler and I represented the Lehigh Valley section of the ACS as Councilors at the 242nd Annual Meeting in Denver, August 28-September 1, 2011. Denver was a delightful meeting site with fine weather (sunny and dry instead of tropical storm rains) and convenient proximity of the Convention Center and hotels. I am on the executive committee of the Local Section Activities Committee and serve as an associate member of the Committee on Minority Affairs. I

attended the business meetings of these groups and also the many associated receptions.

On Wednesday 8/31, the Council conducted required business such as electing Councilors for its various committees and listening to reports of committees, Directors and the CEO. Here are some items that might be of general interest to members: Candidates for the fall 2011 ACS national election for President-elect 2012 were announced as Dr. Dennis Chamot and Dr. Marinda Wu and for Directors-at-Large (2012-2014) Dr. Ken Anderson, Dr. William Carroll, Dr. Charles Kolb, and Dr. Barbara Sawrey. Ballots will soon be sent to all members by email or U. S. mail.

A petition that clarifies how official “position statements” for the society are to be made was voted in. It allows ACS entities, such as local sections, to take a stand on issues as long as not interfering with the Board of Directors’ authority to establish policy for the full society.

Councilors engaged in a rigorous discussion on the special topic question, “How can the ACS best cultivate a culture of safety in academic teaching and research laboratories?” Devastating incidents in academic labs and observations that many graduates do not have strong safety skills elevated this topic to the Council’s attention. Suggestions included producing posters including popular culture icons that appeal to students to promote safe practices, tasking student members into safety teams to inspect their own laboratories (teach them while young...apparently some of us older members are too old to change), and somehow imposing meaningful consequences on faculty who fail to ensure safe conditions in their labs.

Despite the challenging economy, membership remains stable at about 163,000, including the rapidly growing category of undergraduate Student Members. Efforts are being focused on maintaining these and all current members.

Denver meeting attendance was 10,076. Hurricane Irene had a slight impact on the meeting and those who could not attend because of the storm are being offered registration fee waivers.

The number of employers with jobs recruiting at the meeting was up from the spring national meeting in Anaheim.

The ACS has created new ways to assist unemployed members and new resources for all, from students to seasoned professionals. A virtual career fair allowed job seekers face-to-face interactions with employers via webcam. The largest networking event in ACS history occurred electronically linking attendees and other chemists around the world. A seminar on this important career skill called "Networking 101-Making your Contacts Count" preceded the event.

ACS President Nancy Jackson asked ACS members to help unemployed members in whatever way they might. See her 8/8 *Chemical and Engineering News* essay about her "Paying it forward" campaign. Look for more about this in *C&EN* from other ACS officials.

An ACS Presidential Task Force on Innovation and Job Creation released their report, "Innovation, Chemistry and Jobs." Stemming from this, an entrepreneurial initiative was funded. Implementation next year will include an educational program to guide budding entrepreneurs through the creation of new chemical businesses and access to the unparalleled informational resources of the Society to support new chemical companies.

Here is a list of URLs that may be helpful in learning about some of the topics mentioned in this report:

www.acs.org/creatingjobs - Location for the ACS Task Force on Innovation report, "Innovation, Chemistry and Jobs"

www.acs.org/iyc2011 - Location for International Year of Chemistry activities

safety@acs.org – Contact information for questions/comments about laboratory safety

www.acswebinars.org/vcf2011 - Information on the ACS webinars and virtual career fairs

www.acs.org/bechemists - Information on a campaign to remind recent graduates of the benefits of ACS membership

outreach@acs.org – Contact information on outreach activities through the Committee on Community Activities

www.acs.org/acspresidents - Information on ACS past presidents

ACS Division of Analytical Chemistry Awards Grants for International Year of Chemistry (IYC) Activities

The American Chemical Society's Division of Analytical Chemistry has awarded 20 grants to support outreach projects that will inform the public as well as the chemistry community about the significance of analytical chemistry for the IYC themes of environment, energy, materials, and health.

Analytical chemistry is the source of techniques for making measurements of chemical composition. Its applications range from ensuring the quality and safety of food and health care products to monitoring the production of computer chips and other advanced materials. It also is an essential part of modern medical care and efforts to ensure environmental quality.

Many of the projects will carry out experimental activities that focus on environmental quality measurements. Others will combine experiments

with classroom activities. All will be open to the general public.

Ten grants were awarded to primarily undergraduate institutions, and ten to graduate institutions. The titles, institutions, and Principal Investigators are listed below.

The Division of Analytical Chemistry is the world's largest organization of professionals in this field, with more than 8000 members. The Division organizes symposia at scientific meetings, recognizes major accomplishments in the field, honors students and young scientists starting their careers and represents the members of the discipline within the American Chemical Society and to the general public. Its Analytical Sciences Digital Library provides up-to-date educational materials across the discipline, while its Subdivision of Chromatography and Separations Chemistry provides a forum for this key subdiscipline. More information on these programs is available at www.analyticalsciences.org.

Graduate Institutions

1. TESci: Channeling Scientific Inquiry through FT-IR Spectroscopy, University of Wisconsin-Madison, Josh Coons
2. How much arsenic do we eat? Analytical chemists make light work in tracking potentially harmful chemicals., University of Massachusetts Amherst, Julian Tyson
3. Chemistry on Campus: An International Year of Chemistry Celebration
University of Toledo, Tony Bova
4. G201 Service Learning in Chemistry: Clear Creek Watershed & the B-Line Trail
Indiana University/City of Bloomington, Kate Reck
5. Assessing the Nutritive Quality of Organic Fertilizers, University of Hawaii, Megan Ruzicka
6. Pesticide Detection: A Joint Project between NCATSU Instrumental Analysis Students and the

- Rankin Elementary School 5th Grade Class, University of North Carolina, Michelle Kovarik
7. Youth Outreach at Wildcat Alley, Northwestern University, Kenneth Aruda
8. Caffeine Levels in Missouri Natural and Drinking Water, Missouri University of Science & Tech., Yinfa Ma
9. Puerto Rico: Acid, Basic or Neutral?, University of Puerto Rico, Johary Rivera & Juan C. Aponte-Santini
10. Water Analysis To Educate and outReach (WATER) Program, South Dakota State University
Brian Logue & Raj Bhandari

Predominantly Undergraduate Institutions

1. Water Analysis Exploration for the 5th Graders, University of Central Missouri, Brittany Hagendorf & Gija Geme
2. Connecting with Chemistry, Northern Kentucky University, Samantha Sutkamp & Heather Bullen
3. Analytical Chemistry and Healthy Kids, Medgar Evers College CUNY, Sheila Sanders
4. Unlocking the Past - Archaeological Applications of Analytical Chemistry, Beloit College
Kevin Braun
5. Chemistry Concepts for Elementary Students: A Hands on Approach to Bring Science into the Classroom, University of Tennessee Chattanooga, Katherine Thurman/Gretchen E. Potts
6. Water Quality Explorations at Local Watershed, Eastern Oregon University, Anna Cavinato
7. Comparison of Water Quality between Urban, Suburban and Rural Areas in Upstate New York State Univ. of New York College, Oneonta, Trudy Thomas-Smith
8. A partnership between college and high school students to determine the effects of urbanization on the water quality of Buckland Creek, St. John Fisher College, Kimberly Chichester
9. Oil and Water Don't Mix, Penn State Berks, Greglynn Gibbs
10. An Outreach Lecture in Environmental Analytical Chemistry, Chestnut Hill College, Karen Wendling

LVACS Officers - 2010

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T. Michelle Jones-Wilson (see above)

Submissions to the Octagon

LVACS members, we want to know about what you do! Please submit pieces of interest to the chemistry community for publication in the Octagon. Articles about chemistry or science in the Lehigh Valley are always welcome. Let us know about upcoming events, educational opportunities or job openings.

The Octagon is published eight times per academic year, September through May. Each issue generally arrives three weeks before a section meeting. Thus the deadline for submissions is approximately one week earlier. Please email the editor at lvacs@verizon.net for specific questions about deadlines for any issue. Email submissions to lvacs@verizon.net

A note about formatting:

Please submit text as simple .txt files, or you may paste the text into an email. If you use later versions of MS word please do not submit documents as .docx files. I cannot always read all content in .docx formatted files. It would be best to use the "save as" option, generally found under the file menu, to save the document as .txt. Also images embedded (pasted) in MS word (particularly later versions) are problematic to extract and put in the newsletter while retaining good image quality. Whenever possible, please submit images in a standard format such as .jpg, .jpeg, .gif, .tiff or .bmp as individual files, rather than embedded within a document. If the placement of images is critical you could submit two versions (one embedded so that I can see where you would like images placed) and the other as separate files so that I may maintain figure resolution.

Congratulations to the Winners of the LVACS Organic Scholarship

Best Essay - Sarah Haas (Cedar Crest)
Overall - Sherri Miller (Cedar Crest)

***BYLAWS**

LEHIGH VALLEY SECTION of the AMERICAN CHEMICAL SOCIETY

ARTICLE I. Name

This organization shall be known as the Lehigh Valley Section of the AMERICAN CHEMICAL SOCIETY.

ARTICLE II. Territory and Headquarters

Section 1. The territory of the Lehigh Valley Section shall comprise the counties of Berks, Carbon, Lehigh, Monroe, Northampton, and Schuylkill in Pennsylvania, and the county of Warren in New Jersey.

Section 2. The headquarters of this Section shall be located at Bethlehem, Pennsylvania.

ARTICLE III. Objects

The objects of the Lehigh Valley Section shall be the encouragement of chemistry, professional good fellowship and the interchange of ideas and experiences amongst the members.

ARTICLE IV. Members and Affiliates

Section 1. The rolls of this Section shall include those MEMBERS, ASSOCIATE MEMBERS, and National Affiliates of the SOCIETY residing within the territory of the Section, provided that exceptions to this rule may be made in conformity with the Constitution and Bylaws of the SOCIETY.

***Effective November 7, 1980.** Approved, as amended, by the Committee on Constitution and Bylaws, acting for the Council of the AMERICAN CHEMICAL SOCIETY.

Section 2. Persons who are not members or National Affiliates of the SOCIETY may become Local Section Affiliates of the Lehigh Valley Section upon application to the Secretary, approval by the Executive Committee, and payment of dues for the current calendar year, and shall retain such status as Local Section Affiliate only so long as payment is made of local dues.

Section 3. MEMBERS, ASSOCIATE MEMBERS, National Affiliates, and Local Section Affiliates shall have such rights and privileges as are accorded them by the Constitution and Bylaws of the SOCIETY. National Affiliates and Local Section Affiliates may not vote for or hold an elective position of the Section, vote on articles of incorporation and bylaws of the Section or serve as voting members of the Executive Committee. National Affiliates and Local Section Affiliates may be appointed to other committees.

ARTICLE V. Officers

Section 1. Officers: The officers of this Section shall be a Chair, Chair-Elect, Immediate Past Chair, Secretary, Treasurer, and the Councilors and Alternate Councilors which are allowed this Section under the Constitution and Bylaws of the SOCIETY. Only MEMBERS are eligible to hold office.

These officers shall constitute an Executive Committee which has power to act on behalf of this Section as defined in these bylaws.

Section 2. Election of Officers: All the officers shall be elected by mail ballot unless otherwise provided for in these bylaws.

At the September meeting, the Nominating Committee, appointed as provided in these bylaws, shall submit a slate consisting of two nominees for each elective office to be filled. The nominees shall be members in good standing in the AMERICAN CHEMICAL SOCIETY and in the Lehigh Valley Section. The Nominating Committee shall obtain the nominee's consent to serve, if elected, before his name is placed in nomination. Immediately following the report of the Nominating Committee, the Chair shall call for nominations from the floor, which, if properly seconded, shall have equal weight with those offered by the Nominating Committee. The consent to serve, if elected, of all candidates named from the floor shall be obtained by the Nominating Committee before placing their names on the ballot.

The Secretary shall deliver to the Editor of *The Octagon* a ballot form containing a slate of all nominees, and the instructions for voting, which shall be published in the October issue of *The Octagon* and it shall be mailed to each member of the Section on or before the 15th day of October. The members shall remove the ballot from *The Octagon*, fold it and seal it, if desired, and transmit it to the Secretary in a sealed envelope which shall bear on the outside the member's signature and address in addition to the word "ballot." The ballot shall be returned to the

Secretary not later than than the 31st day of October. The Secretary shall forward all ballots received unopened along with the active membership list to a Committee of Tellers appointed by the Chair. The Committee of Tellers shall validate the ballots against the active membership list, count the ballots, and certify the results of the election. They shall reject ballots as being invalid for either of the following reasons (1) The ballot was postmarked later than the 31st day of October, and (2) the ballot was not accompanied by the signature of the voting member written on the mailing envelope. The outcome of the election shall be published in the next regular issue of *The Octagon*. Any ties shall be resolved by a majority vote at the next Local Section meeting following the election.

Vacancies occurring in any office for which there is an officer-elect shall be filled by this officer-elect in addition to his normal term of office. Vacancies occurring in any office for which there is no officer-elect shall be filled by appointment by the Executive Committee.

Section 3. Terms of Office: All officers, except Councilors and Alternate Councilors, shall serve for one year and shall enter upon their duties on the first day of January next following their election and shall continue in office for the term to which they have been elected or until their successors have duly qualified. All officers, except Councilors and Alternate Councilors, shall be limited to two terms of consecutive service in one office. The Chair-Elect shall automatically advance to the Chairship upon expiration of his term as Chair-Elect.

All Councilors and Alternate Councilors shall be elected for a term of three years beginning with the first day of January immediately following their election, except that at the first election following the adoption of these bylaws one Councilor and one Alternate Councilor shall be elected for a period of three years, a second Councilor and a second Alternate Councilor shall be elected for a period of two years, and the third Councilor and third Alternate Councilor shall be elected for a period of one year.

Section 4. Duties of Officers: The duties of each officer shall be those usually incumbent upon his position, with the additions outlined in the following paragraphs.

The Chair shall be *ex officio* Chair of the Executive Committee and a member of all standing committees.

The Chair-Elect shall preside at the meetings of the Section and of the Executive Committee in the absence of the Chair. He shall serve as Chair of the Program Committee.

The Secretary shall issue notices of the meetings of the Section to all members and affiliates through the Section publication or otherwise, and at least one week in advance thereof.

He shall keep accurate records of the meetings of the Section and of the Executive Committee, of which he shall be Secretary, *ex officio*.

As provided in the Constitution and Bylaws of the AMERICAN CHEMICAL SOCIETY, the Secretary shall transmit to the Executive Director of the AMERICAN CHEMICAL SOCIETY the annual report on the condition of the Section, and the names of all the Section's officers and standing committees within three weeks of their election or appointment and shall also promptly inform him of any changes that may take place. Between April 1 and October 1 of each year, he shall send the Executive Director of the SOCIETY a complete list of the members and National Affiliates of the Section for checking and verification.

The Treasurer shall collect the dues of the Local Section Affiliates and all moneys which may be due the Section and shall make such disbursements as authorized by the Executive Committee.

As provided in the Constitution and Bylaws of the AMERICAN CHEMICAL SOCIETY, the Treasurer shall forward to the Executive Director of the AMERICAN CHEMICAL SOCIETY the Section's application for such portions of the funds annually due this Section as may be needed. This application must be received by the AMERICAN CHEMICAL SOCIETY on or before November 30 of each year. He shall transmit to the Executive Director of the AMERICAN CHEMICAL SOCIETY an itemized statement of receipts, expenditures, and investments of the Section funds during each fiscal year.

The Treasurer shall be sole custodian for the endowment fund and the general fund, and shall be bonded by the Section to an extent sufficient to cover the sum total of all funds handled by him in behalf of the Section.

He shall make an annual report of the condition of the Section and submit a budget for the ensuing year to the Executive Committee at its December meeting. The budget, as amended by the Executive Committee, shall be submitted for discussion, amendment, and acceptance by voice vote at the January meeting of the Section. The Treasurer is authorized to make payments from the funds of the Section, for purposes stated in the budget, not to exceed the amounts budgeted, without special authorization of the Executive Committee.

The Councilors and Alternate Councilors shall report to the Section from time to time any matters concerning the actions or welfare of the AMERICAN CHEMICAL SOCIETY, and shall make reports on its general meetings, and, upon instruction by the Section, shall lay before the Council matters for its consideration.

The Executive Committee shall be the governing body of the Section, and, as such, shall have full powers to conduct, manage, and direct the business and affairs of the Section in accordance with the Constitution and Bylaws of the SOCIETY and these bylaws of the Section. It shall report at each meeting when requested to do so by the Chair. At the end of each year it shall invest any surplus funds as provided elsewhere in these bylaws. Its business may be transacted by correspondence.

Section 5. The Editor of *The Octagon* shall be appointed by the Executive Committee and shall be an advisory member without right of vote of the Executive Committee. He shall have full charge of the preparation, printing, mailing, and business management of the Section's publication, *The Octagon*. The number of issues of *The Octagon* per calendar year shall be determined by the Executive Committee. They shall be issued and mailed, insofar as possible, to reach the members and affiliates of the Section at least one week in advance of the regular Section meetings.

The Octagon shall contain announcements of the Section meetings and other information pertaining thereto, scientific, professional and personal items of interest to the members and affiliates of this Section, and any other news deemed suitable by the Editor. *The Octagon* shall accept advertisements of a nature related to and having a direct bearing upon the professional activities of the members and affiliates of this Section.

The cost of *The Octagon* shall be defrayed from the income derived from advertisements and subscriptions. Any excess remaining shall, at the close of each calendar year, be transferred to the Section as provided elsewhere in these bylaws and shall be used in the Section's educational activities.

The Editor of *The Octagon* shall keep accurate and detailed records of his receipts and expenditures and shall submit to the Executive Committee a complete report on all of his transactions at least once a year. He shall report at any regular meeting of the Section whenever called upon by the Chair. His accounts shall be audited at the close of every year. He shall be bonded by the Section to an extent sufficient to cover the sum total of *The Octagon* account.

For his services to the Section, the Editor shall receive a remuneration at a rate to be determined annually by the Executive Committee and approved by the Section. The mode of payment shall be that mutually agreed upon by the Editor and the Executive Committee.

ARTICLE VI. Meetings

Section 1. There shall be 8 or more meetings a year to be held at 8 different locations as chosen by the Program Committee and approved by the Chair of the Local Section.

Section 2. Special meetings may be called by the Chair of his own initiative or upon the written request of at least 5% of the members listed in the official roster of the Section as approved by the SOCIETY for the purpose of determining the number of Council representatives of this Section.

Section 3. Five percent (5%) of the members listed in the official roster of the Section as approved by the SOCIETY for the purpose of determining the number of Council

representatives of this Section shall constitute a quorum for the transaction of business at any meeting of the Section.

ARTICLE VII. Dues and Assessments

Section 1. The annual allotment by the SOCIETY to the Section on a per capita basis shall be considered as the Section dues of the members and National Affiliates of the Lehigh Valley Section.

Section 2. The dues of Local Section Affiliates shall be set by the Executive Committee from year to year at a sum depending on the costs involved but at not less than \$2.00 nor more than \$5.00 per year. They shall be payable in advance for each fiscal year. Regularly matriculated students will be accepted as Local Section Affiliates under like terms and the payment of \$1.00 per year.

Section 3. In addition to the dues, members and affiliates by vote of the Section on recommendation of its Executive Committee, may be assessed a sum not to exceed \$5.00 per year.

ARTICLE VIII. Funds

Section 1. The funds to be maintained by the Treasurer (who is bonded as provided in these bylaws) are (1) the general fund, and (2) the endowment fund.

Section 2. The general fund will carry the current receipts and provide for current expenditures other than those involved in the publication of *The Octagon*. All orders drawn on the general fund by the Treasurer are subject to approval by the Chair. The general fund is limited to a sum determined annually by the Executive Committee.

Section 3. *The Octagon* fund is to be maintained as a separate account to finance the publication and business of *The Octagon*. This fund will be balanced at least once every year and, after providing for the necessary working capital, any moneys remaining shall be transferred to the general fund or the endowment fund as determined by the Executive Committee.

Section 4. At the close of every Section year the endowment fund shall receive all local moneys then in the general fund in excess of the working balance for the next year, the amount of which is to be determined annually by the Executive Committee.

Withdrawals from the endowment fund shall be made only upon approval of a three-fourth majority vote of the members present at any regular meeting of the Section provided that such proposed withdrawal was recommended by the Executive Committee at the preceding regular

meeting and provided further that the proposed action was announced with the call of the meeting in *The Octagon*.

The endowment fund shall be deposited in a guaranteed savings account or shall be invested by the Executive Committee in conservative interest-bearing securities which shall be kept by the Treasurer in a safety deposit box in the name of the Section, to which only he shall have access.

ARTICLE IX. Committees

Section 1. The following standing committees shall be appointed by the Chair upon his election:

1. The Program Committee, to provide the principal speaker at the regular meetings of the Section. The Chair-Elect shall be *ex officio* Chair of this Committee.

2. The Entertainment Committee, to arrange for the place of meeting, the dinner, and the "Over the Coffee Cups" speaker, or other entertainment at the dinner.

3. The Education Committee, to stimulate interest in the study of Chemistry in the secondary schools and colleges of this Section and to cooperate with these institutions in chemical education.

4. The Publicity Committee, which shall consist of the Editor and Associate Editors of *The Octagon*, to obtain suitable newspaper publicity for the meetings and other activities of the Section.

5. The Historical Committee, to seek and compile facts concerning the history of the Section, institutions in the Lehigh Valley, and prominent chemists who have been or who are members of this Section. It should follow developments of a chemical nature within the territory of this Section, and cooperate with historical groups or other scientific and engineering societies.

6. The Membership Committee, to maintain and increase the membership of the Section and to promote fellowship among the members and prospective members.

7. The Nominating Committee, consisting of five members representing the various areas and interests in the Section, to perform the duties described in these bylaws and to prepare for presentation at the proper time suggestions for candidates for national office and to propose nominees for awards.

8. The Professional Relations Committee, to represent the general membership in professional matters, to increase membership awareness of the power of opinion to influence SOCIETY policies on professional matters, to increase communication between members of the

SOCIETY and the leadership of the SOCIETY, and to initiate member action programs in professional relations.

All of these committees shall report at any regular business meeting when called upon by the Chair.

Section 2. An Auditing Committee shall be appointed by the Chair in December whose duty shall be to audit the books of the Treasurer and of the Editor of *The Octagon* during January or shortly thereafter, and to report to the Section at the next regular meeting.

ARTICLE X. Order of Business

The order of business at any meeting shall be as follows:

1. Reading of minutes of the previous meeting and of an Executive Committee meeting if such has occurred.
2. Reports of officers and Councilors.
3. Reports of committees.
4. Unfinished business.
5. New business.
6. Reading of paper, discussion, etc.
7. Adjournment.

The Chair may, at his discretion, alter this order by having any paper or scientific discussion presented before, instead of at the close of the business session.

ARTICLE XI. Prizes

There shall be awarded annually a year's membership in the AMERICAN CHEMICAL SOCIETY and a certificate to a qualified senior student majoring in chemistry or chemical engineering at each institution within the territory of the Section offering four-year courses in chemistry or chemical engineering. At the discretion of the Executive Committee, additional awards may be given. The recipients of these prizes shall be designated by the department faculties of the several institutions. The honored students shall appear in person at a designated meeting when, as guests of the Section, a certificate of award shall be given to each one.

ARTICLE XII. Amendments

These bylaws may be amended by a three-fourths vote of members present at any meeting of the Section (having a quorum), the proposed amendment, signed by three (3) members, having been

presented in writing at the previous meeting and the text of the new amendment and portion of the bylaws to be amended having been given in the call of the meeting; provided, that all proposed amendments shall be in harmony with the Constitution and Bylaws of the AMERICAN CHEMICAL SOCIETY.

ARTICLE XIII. Dissolution of Section

Upon the dissolution of the Section and the discharge of its debts and the settlement of its affairs, any funds and property of the Section remaining thereafter shall be used for the advancement of chemistry in the area covered by the Section. In the event this procedure is not practical, or there remain unexpended funds, such funds shall be conveyed to the SOCIETY for the general purpose of the SOCIETY.

BYLAWS*
OF THE
LEHIGH VALLEY SECTION
OF THE
AMERICAN CHEMICAL SOCIETY

BYLAW I
Name

The name of this organization shall be the Lehigh Valley Section (hereinafter referred to as the "Section") of the AMERICAN CHEMICAL SOCIETY (hereinafter referred to as the "SOCIETY").

BYLAW II
Objects

Section 1. The objects of the Section shall be those of the SOCIETY as stated in the Charter and Constitution of the SOCIETY.

Section 2. Nothing in these bylaws shall be inconsistent with the Charter, Constitution, and Bylaws of the SOCIETY.

BYLAW III
Territory

The territory of the Section shall be that assigned to it by the SOCIETY.

BYLAW IV
Members and Affiliates

Section 1. The rolls of the Section shall include those MEMBERS, STUDENT MEMBERS, and Society Affiliates of the SOCIETY residing within the territory of the Section, Any exceptions to this rule shall be made in conformity with the Constitution and Bylaws of the SOCIETY.

Section 2. MEMBERS and STUDENT MEMBERS shall have such rights and privileges as are accorded them by the Constitution and Bylaws of the SOCIETY **and by these bylaws.**

*Effective _____, 2011. Approved by the Council of the American Chemical Society.

Section 3. The Section may have Local Section Affiliates as authorized in the Constitution and Bylaws of the SOCIETY. Candidates for such Local Section Affiliation must apply to the Secretary of the Lehigh Valley Section, be approved by the Executive Committee of the Section and pay annual dues **at a rate established as provided elsewhere in these bylaws.**

Section 4. A STUDENT MEMBER may hold an elective position with the exception of Councilor, Alternate Councilor, Temporary Substitute Councilor or Treasurer. A Society Affiliate or Local Section Affiliate has the rights and privileges of a MEMBER except that they may not vote for or hold an elective position, or vote on Articles of Incorporation and bylaws. **Local Section Affiliates may not serve on the Executive Committee. Society Affiliates may be appointed as committee chairs and may serve on the Executive Committee in a non-voting capacity.**

BYLAW V Organization

Section 1. The officers of the Section shall be a Chair, Chair-Elect, Secretary, and Treasurer.

Section 2. The duties of the officers shall be those customarily performed by such officers [see the “Lehigh Valley ACS Section SOP Manual”], together with those responsibilities prescribed by the Constitution and Bylaws of the SOCIETY and by these bylaws and such other duties as may be assigned by the Executive Committee.

Section 3. The Section shall have Councilor(s) and Alternate Councilor(s) as provided in the Constitution and Bylaws of the SOCIETY.

Section 4. The Executive Committee shall consist of the officers of the Section, the immediate Past Chair, the Councilor(s), the Alternate Councilor(s) and up to two “at large” **members, appointed by the Chair.** The Chair of the Section shall serve as Chair of the Executive Committee and shall appoint members and/or affiliates to all committees authorized in these bylaws or by the Executive Committee.

Section 5. The Executive Committee shall be the governing body of the Section, and, as such, shall have full power to conduct, manage, and direct the business and affairs of the Section in accordance with the Constitution and Bylaws of the SOCIETY and these bylaws. [see the “Lehigh Valley ACS Section SOP Manual” for a description of current Executive Committee procedure].

BYLAW VI Manner of Election and Terms of Office

Section 1. The officers of the Section, **other than the chair,** shall be elected by the members. **Upon completion of the Chair’s term of office, or as otherwise provided in these bylaws, the Chair-Elect shall succeed to the office of Chair. However, if the Chair-Elect position was filled as an interim action by the Executive Committee, the Chair shall be elected by the Section at the annual election. Officers** shall take office on January 1, and shall hold office for one year, or until their successors qualify.

Section 2. Councilor(s) and Alternate Councilor(s) shall be elected by the members for a term of three years beginning on January 1. The terms shall be overlapping so that a rotation is achieved.

Section 3. In the event of a vacancy in the office of Chair, the Chair-Elect shall assume the added duties of the Chair for the unexpired term. All other vacancies shall be filled by the Executive Committee from among the MEMBERS by interim appointment for the period up to the next annual election, at which time the Section shall elect a MEMBER to complete the unexpired term, if any. In the event the office of Chair-Elect is filled by such interim appointment, the Section shall elect both a Chair and a Chair-Elect at its annual election.

Section 4. The Chair shall appoint a Nominating Committee consisting of a Chair and two or more members not later than September of each year. Not more than two members of the Executive Committee may be a member of the Nominating Committee.

Section 5. The Nominating Committee shall nominate one or more members for each elective position for which a vacancy will occur and shall make a report at a regular meeting of the Section. With the exception of the Chair and Chair-Elect, the incumbent of any elective position may be re-nominated. After the report of the Committee, nominations may be received from the floor or by petition. Only nominees who have agreed to serve if elected may be named on the ballot.

Section 6. The election of officers shall be conducted either at a regular meeting subsequent to that mentioned elsewhere in these bylaws or, at the discretion of the Executive Committee, by a ballot distributed to the members of the Section in accordance with the Bylaws of the SOCIETY. Balloting procedures shall meet the requirements of (1) fair balloting that is open to all eligible voting members; (2) protection against fraudulent balloting; (3) ballot archiving, and the timely reporting and archiving of balloting results.

Section 7. Councilor(s) and Alternate Councilor(s) shall be elected by a ballot distributed to the members of the Section in accordance with the Bylaws of the SOCIETY.

Section 8. Elections shall be completed and the results certified to the Executive Director of the SOCIETY by December 1, as required by the Bylaws of the SOCIETY.

Section 9. The Secretary, or other designated officer of the Section, shall prepare an election ballot on which shall appear the names, in order chosen by lot, of all candidates.

Section 10. For distributed ballots, no less than three weeks must be provided between the date of distribution of ballots to the members and the deadline for their return to the Secretary or other designated officer of the Section.

Section 11. The Chair shall appoint as Tellers two or more members who are neither candidates for office nor members of the Executive Committee.

Section 12. The Secretary, or other designated officer of the Section, shall validate returned ballots in accordance with the Bylaws of the SOCIETY and convey the ballots to the Tellers.

Section 13. The Tellers shall ensure that valid ballots are received, counted and tallied. Ballots that violate specified voting procedures shall be rejected in whole or in part, depending on the extent of the violation(s). The vote tally, including the number of rejected ballots, shall be reported to the Chair. All ballots shall be returned to the Secretary.

Section 14. **The candidate receiving the most votes is thereby elected.** In case of a tie vote for any elective position, the Executive Committee shall select from among the tied candidates.

Section 15. The Chair shall inform all candidates of the election results and shall arrange for **distributing** this information to all members and affiliates of the Section.

Section 16. The Secretary shall retain all ballots for at least ninety days after either the announcement of the results to the membership or until any disputes have been resolved, whichever is later.

BYLAW VII Recall of Elected Officials

Section 1. The elected officials of the Section (officers or elected Executive Committee members) are subject to recall for neglect of duties or conduct injurious to the SOCIETY. Recall procedures are not applicable to Councilors and Alternate Councilors elected by Local Sections.

Section 2. The recall of an official shall be initiated when a signed petition, indicating in writing the specific charges and reasonable substantiating evidence, is submitted to the Chair from at least five voting members of the Section. In the event the Chair is the official in question, the Chair-Elect shall receive the petition and shall assume the duties of the office of Chair with respect to this issue until the issue is resolved.

Section 3. The Chair shall without delay determine that the petitioners are aware of the gravity of their actions and the procedures to be followed. The Chair shall seek an alternate resolution to the problem and a withdrawal of the petition at this time. In the absence of a resolution to the problem, the Chair shall present the issue to the Executive Committee as a new business item at the next Executive Committee meeting.

- a. The Executive Committee shall promptly continue the recall process or dismiss the petition as ill-founded or find an alternative solution to the problem. The Chair shall promptly inform the petitioners and the official of the decision of the Executive Committee.
- b. If the proceedings continue, the Chair shall assign the duties of the official to another qualified member of the Section until the issue is resolved.
- c. If the proceedings continue, the official shall be offered an opportunity to answer the allegations in the petition before the Executive Committee.

Every reasonable effort shall be made to contact the official throughout this procedure. That effort shall include a certified letter to the last known address on the official SOCIETY membership rolls. Upon notification, the official shall have thirty ~~(30)~~ days to make a written response to the allegations. The Executive Committee shall decide whether to proceed after studying the official's response. The Chair shall inform the official and the petitioners of the decision of the Executive Committee.

If no contact with the official can be made after a reasonable effort, the Executive Committee may remove the official in question with a two-thirds vote of the remaining members of the Executive Committee.

- d. If the proceedings continue, the official shall choose one of the following options:
- (1) The official may resign.
 - (2) The official may request a recall vote in the same manner as the original election, which must be consistent with the Section bylaws. The voting membership shall be informed, through brief written statements prepared by the Executive Committee and the official, of the issues involved with the recall vote. Both statements shall be given to the voting membership before the vote is taken.
 - (3) The official may request a hearing and a recall vote by the remaining members of the Executive Committee. A two-thirds vote of the remaining members of the Executive Committee shall be required to recall the official.
 - (4) The official may choose not to respond and thus forfeit the position.

Section 4. The vacancy provisions of these bylaws shall be used to fill a vacancy caused by a recall process. The membership of the Section and the Executive Director of the SOCIETY shall be informed of the results of the recall process and the replacement of the official.

BYLAW VIII Committees

The Executive Committee shall establish committees as necessary for the proper operation of the Section. **These may include, but are not limited to,** Nominating, Program, Publicity, Professional Relations and Audit committees.

BYLAW IX Meetings

Section 1. The Section shall hold regular meetings at places and times designated by the Executive Committee.

Section 2. The Section may hold special meetings at the call of the Executive Committee or at the written request of 15 members of the Section. The notices of special meetings shall state the exact nature of the business to be considered, and no other business shall be transacted at such meetings.

Section 3. Due notice of all meetings shall be distributed to each member and affiliate of the Section. A quorum for transaction of business at a Section meeting shall consist of 15 members of the Section. No business shall be transacted in the absence of a quorum.

Section 4. The Executive Committee shall meet upon due notice to its members at the call of the Chair or at the request of a majority of the members of the Committee. In the absence of a quorum, which shall be a majority of the members of the Executive Committee, called meetings of the Executive Committee shall adjourn to a date.

BYLAW X **Finances**

Section 1. All members and assigned Society Affiliates of the Section may be requested to pay voluntarily such annual Local Section dues as may be set by the Executive Committee.

Section 2. The annual dues of Local Section Affiliates shall be set by the Executive Committee in accordance with the Constitution and Bylaws of the SOCIETY. Failure to pay such dues for the current year shall terminate the affiliation.

BYLAW XI **Amendments**

Section 1. A petition to amend the bylaws may be initiated by the Executive Committee, or by petition if signed by at least 15 members or three percent of the members of the Section, whichever is larger. If the proposed amendment is approved by the Executive Committee, it shall, if practical, be submitted to the SOCIETY's Committee on Constitution and Bylaws for review. After any required changes are incorporated, and any recommended changes reviewed and accepted or rejected by the Executive Committee or a majority of the petitioners, the Secretary shall distribute the amendment(s) to each member of the Section when notice of the next meeting, or notice of a ballot on the amendment, is provided.

Sec. 2. If a proposed amendment is not approved by a majority of the Executive Committee, and if the petition is signed by at least 15 members or 3 percent of the members of the Section, whichever is larger, it shall, if practical, be submitted to C&B for review before being submitted to the membership of the Section. After any required changes are incorporated, and any recommended changes reviewed and accepted or rejected by a majority of the petitioners, the Secretary shall distribute the amendment(s) to each member of the Section when notice of the next meeting, or notice of a ballot on the amendment, is provided.

Section 3. Following announcement of the proposed amendment at a meeting of the Section and provided that due notice of the impending vote is given, the amendment will be adopted at the subsequent meeting of the Section if it receives an affirmative vote by two-thirds of the members present, if the number of members present constitutes a quorum.

Alternatively, or in the absence of a quorum at the meeting during which the vote is scheduled, a ballot distributed to the members of the Section in accordance with the Bylaws of the SOCIETY, may be used. Both the current language and the amended language of the affected bylaw(s), together with an explanation of the change(s), must accompany the ballots unless such information was furnished to members of the Section previously. A deadline date, at least three weeks after distribution of the ballots, shall be specified for return of the

ballots to the Secretary or other designated officer of the Section. The amendment is adopted by an affirmative vote of two-thirds of the valid ballots returned.

Section 4. Amendments to these bylaws, after adoption by the Section, shall become effective upon approval by the Committee on Constitution and Bylaws, acting for the Council of the SOCIETY, unless a later date is specified in the amendment.

BYLAW XII

Dissolution of the Local Section

Upon the dissolution of the Local Section, any assets of the Section remaining thereafter shall be conveyed to such organization then existent, within or without the territory of the Local Section, as is dedicated to the perpetuation of objects similar to those of the AMERICAN CHEMICAL SOCIETY, or to the AMERICAN CHEMICAL SOCIETY, so long as whichever organization is selected by the governing body of the Local Section at the time of dissolution shall be exempt under Section 501(c)(3) of the Internal Revenue Code of 1954 as amended or under such successor provision of the Code as may be in effect at the time of the Section's dissolution.