February Meeting
Wednesday, February 13, 2019
5:30 – 8:00 PM

Joint ACS-CCN Meeting
Discovery of a Blockbuster Drug and Chan-Lam Coupling Reaction
Patrick Y. S. Lam – Distinguished Professor, Baruch S. Blumberg Institute

The Cynwyd Club
332 Trevor Lane
Bala Cynwyd, PA 19004

See the FEBRUARY issue of the Catalyst for details,
call the Section Office at (215) 382-1589 or email PhilaACS@gmail.com.
CONTENTS
February Advance Notice ...........................................1
Introducing Our New Chair .........................................3
Comments From the Chair ..........................................3
News Atoms ................................................................4
January Meeting .........................................................6
Results of the Fall 2018 Election .................................7
Nominations Invited for Section Award .....................8
Call for Nominations in Pre-College Teaching .............9
Call for Nominations in Undergraduate Teaching ......10
NCW Illustrated Poetry Contest Winners ...................11
MARM Conference .....................................................13
Chemical Consultants Network Meeting ....................15
May 2018 Board of Directors Meeting .......................16
June 2018 Board of Directors Meeting ......................19
Directory of Services .................................................21
2019 Calendar of Activities .......................................22

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Advertising: Victor Tortorelli, vtortorelli@ursinus.edu
INTRODUCING OUR NEW CHAIR
—Dr. James K. Murray, Jr.
Professor of Organic Chemistry, Department of Natural & Computational Sciences, Immaculata University

Dr. Jim Murray, a native of Philadelphia, received his BS (1996) in Chemistry and his MS (1997) and PhD (2003) in Organic Chemistry from Drexel University. During his undergraduate studies he worked as an analytical chemist analyzing polymer modifiers at Rohm & Haas Corporation and as an organic chemist synthesizing anabolic steroid metabolites in the medicinal chemistry department of GlaxoSmithKline. He has been on the faculty of Immaculata University since the fall of 2001 teaching courses in organic, medicinal, physical and inorganic chemistry. Dr. Murray’s research interests cover the areas of organic chemistry, organic chemistry education, and medicinal chemistry education. He is interested in developing experiments that introduce new methodologies and techniques that can be used as effective teaching tools and to developing methods to introduce medicinal chemistry concepts into the undergraduate organic chemistry curriculum. Dr. Murray is a past officer of the Philadelphia Organic Chemists’ Club (POCC), and a member of the ACS Divisions of Organic Chemistry, Medicinal Chemistry, and Chemical Education.

Comments From the Chair
Jim Murray

Happy New Year! I would like to begin this column by sending my best wishes to all members of the Section, and their families, for a happy, healthy and productive 2019!

As the year 2019 begins I would like to express how humbled I was to be elected Chair of the ACS Philadelphia Section. I have been a member of the Section since my days as an undergraduate chemistry major and have always thought of it as a special place in my education as both a person and as a chemist. We are members of a section with a long and proud history. There is a vibrancy here that will allow for continued growth and the generation of new history and memories for both current and future members.

The opening of a fresh, new calendar provides a clean slate to begin anew and move to the future. As I look at the upcoming events for the early part of 2019 there are a lot of exciting things happening in the Section. I hope to see many of you at these events. Please do not hesitate to spread the word and encourage others to join you in attending. It is in that coming together that conversations begin, old acquaintances are renewed, and new friendships begin.

I am looking forward to a productive year and to strengthening the Section, its members and its events. If you have any questions or comments, please feel free to reach out to me, the members of the board of directors, or the Section Councilors.

Again, Happy New Year and it is now time for safety glasses, lab coats, and gloves and getting to work!
Kathleen Stebe, deputy dean and professor of chemical and biomolecular engineering at the University of Pennsylvania, received a 2018 Langmuir lectureship award.

Benjamin A. Garcia, professor of biochemistry and biophysics at Penn received the Biemann Medal of the American Society for Mass Spectrometry.

Elizabeth Rhoades, associate professor of chemistry at Penn, will receive the 2019 Michael and Kate Barany award of the Biophysical Society.

Shu Yang, professor of materials science and engineering and chemical and biomolecular engineering at Penn, was named an ACS Division of Polymeric Materials Fellow. She was also elected a Fellow of the American Physical Society.

Neil C. Thompson, assistant professor of chemistry at Penn was awarded the Maximizing Investigators’ research award for Early Stage Investigators grant.

Chinedum Osuji, Penn professor in chemical and biomolecular engineering was named a Fellow of the American Physical Society.

Abraham Nitzan, professor of chemistry at Penn, was awarded the Earle K. Plyler prize for Molecular Spectroscopy & Dynamics. The award is sponsored by the Journal of Chemical Physics.

DEATHS

Stephen Senderoff, biochemist, June 11, 2016 at 62. As a post doctorate student he conducted research in advancing breast tumor imaging. He was a biochemist and researcher for Glaxo-SmithKline.

William E. Garrison, Jr., organic chemist, December 28, 2017 at 84. He worked at the Experimental Station in Wilmington and was named a DuPont Fellow, retiring in 1997.

Col. Dirk A. Plummer, chemical as well as electrical engineer, July 21, 2018 at 87. He was a chemical engineer for Foster Wheeler and American Machine & Foundry. From 1956 to 1961 he was a development engineer at Aerojet-General, and then served as a senior member of the technical staff in the aerospace communications and controls division of RCA from 1961 to 1962. Following service as an engineer in the electrical boat division of General Dynamics he was employed as an electronics engineer in the United States Civil Service.

Plummer was a retired colonel in the US Army Reserve and also a commercial pilot. He received honors for commendable service by the Defense Supply Agency (1972) and was awarded the Meritorious Service medal of the President of the United States (1982). He was a 55-year member of the ACS.
**Gary L. Statton**, retired chemist, August 24th at 80. He was a research chemist for Arco Chemical. In retirement Statton was a lapidary and became proficient with a faceting machine which he used to cut “gems” from glass marbles.

**John E. “Jack” Schmidt, Jr.**, retired chemical engineer, November 26th at 85. He spent his entire career with FMC Corporation, retiring as director of worldwide environmental planning.

**Carlos “Cap” Weil, Jr.**, retired chemist, December 1st at 78. He served two years in the U.S. Army Chemical Corps and then spent his entire career with Atlas Chemical, later ICI. He was president of the board of the Chadds Ford Historical Society.
Join financial planner JP Northrop -- who just happens to be an actual chemist -- discusses the chemical and pharmaceutical industries from the perspective of the American economy. While you’re here, enjoy a tour of one of the Delaware Valley’s newest breweries as we continue our annual series of exploring great breweries and distilleries. We also continue our networking partnership with ChemPharma and extend a warm welcome to our chemical engineering colleagues from the AIChE Delaware Valley Section to join us in a night of informal networking. Food will be provided, and beer will be served on a cash bar basis.

For more information and to register for this event, please visit [https://www.eventbrite.com/e/chemistry-and-the-economyand-beer-tickets-52710741246](https://www.eventbrite.com/e/chemistry-and-the-economyand-beer-tickets-52710741246)

Workhorse Brewing Company is located in King of Prussia, Pennsylvania, with easy access to I-76, I-476, the Pennsylvania Turnpike, US 422 and US 202. Plentiful, free parking is available on the Workhorse Brewing site.

The Board of Directors will meet at Workhorse Brewing Company from 4:00 to 6:00 PM.
Philadelphia Section ACS - Election Result - Terms of Office Beginning 2019

Officers

Chair for 2019
James K. Murray, Jr.

Chair-Elect for 2019
Joseph A. Martino, III

Treasurer 2019-2020
David J. Cichowicz

Directors and Councilors/Alternates

Directors 2019-2021
Christine E. McInnis
Deborah H. Cook
Ella L. Davis
Jason Cross
Steven A. Fleming

Councilors 2019-2021
Anne S. DeMasi
Kathryn A. Lysko
Rick Ewing

Alternate Councilors 2019-2021
Anthony (Tony) Addison
Joseph A. Martino, III
James K. Murray, Jr.
Notice is hereby given that the ACS Philadelphia Section invites its members as well as Regional and Topical Groups to nominate candidates for the 2019 ACS Philadelphia Section Award.

This Award shall be presented “to one member of the Section, or in exceptional circumstances to two members of the Section jointly, who by conspicuous scientific achievement has/have made important contributions to the field of chemistry and thereby aided the public appreciation of the profession.” (ACS Philadelphia Section Bylaw X, §1.) Any member of the ACS Philadelphia Section may be nominated. Recent awardees include Donna M. Huryn (University of Pennsylvania), Anthony W. Addison (Drexel University) and Marsha I. Lester (University of Pennsylvania).

INSTRUCTIONS FOR SUBMITTING NOMINATION

1) Nominators should provide a CV of the nominee showing education; employment and/or academic history; a list of publications, presentations and patents; and a record of other accomplishments pertinent to consideration for this award.

2) One or two seconding letters (at least one of which should be from a person in an organization other than that of the nominee) should be requested in support of the nomination.

3) Nominators and seconders should be identified with addresses, e-mail and telephone numbers so that they can be contacted, if necessary, for additional information.

4) Unsuccessful nominees from previous years may be renominated. In fairness to the nominee, however, renominations must be accompanied by an updating of the nominee’s biographical data and a list of accomplishments in order to make the nomination competitive. Unsuccessful nominees who have been considered three years in a row should not be renominated for the fourth year in succession without prior consultation by the nominator with the Chair of the Awards Committee.

Nomination forms are available from the Section office at:

   ACS Philadelphia Section
   Department of Chemistry
   University of Pennsylvania
   Philadelphia, PA 19104-6323
   (215) 382-1589; e-mail PhilaACS@gmail.com

The completed packet of nomination materials may be e-mailed to PhilaACS@gmail.com or mailed by April 1, 2019 to the Chair of the Awards Committee at the Section Office address above.
CALL FOR NOMINATIONS
2019 ACS PHILADELPHIA SECTION
AWARDS FOR EXCELLENCE IN PRE-COLLEGE TEACHING

Notice is hereby given that the ACS Philadelphia Section invites its members to nominate candidates for the 2019 ACS Philadelphia Section Awards for Excellence in Pre-College Teaching.

The Awards honor two outstanding science teachers. One Award will be given to a full-time educator involved in teaching science in grades K-8. The second Award will be given to a full-time educator at the secondary level (grades 9-12) who teaches chemistry. Nominees must teach in the geographic territory of the ACS Philadelphia Section (Philadelphia, Bucks, Chester, Delaware and Montgomery Counties in Pennsylvania, and Burlington and Camden Counties in New Jersey).

Nominations for 2019 will be accepted until February 22, 2019.

INSTRUCTIONS FOR SUBMITTING NOMINATIONS
1) A Nominator Recommendation of not more than 750 words submitted by the nominator according to the guidelines outlined on the Recommendation Form.
2) A current curriculum vitae or resume that includes a list of the nominee’s honors, professional activities, and additional evidence of service to the profession. This must be limited to no more than two pages and the activities listed must have occurred within the past five years.
3) A statement by the nominees of not more than 500 words that describes the nominee’s teaching philosophy or commitment to the profession.
4) At least one, but not more than three, letters of support. One letter, of no more than 400 words must be from the teacher’s current principal or supervisor. Additional letters of support, of no more than 400 words, may be sent by colleagues, members of the ACS who are familiar with the nominee’s achievements, or former students and parents of former students.
5) The total nomination package should not exceed 30 pages.

The nomination package may be e-mailed or sent to:
ACS Philadelphia Section
Department of Chemistry
University of Pennsylvania
Philadelphia, PA 19104-6323
(215) 382-1589; e-mail PhilaACS@gmail.com

The Award Recipient will be honored at our May 2019 Section meeting with a plaque and an honorarium.
CALL FOR NOMINATIONS
2019 ACS PHILADELPHIA SECTION
AWARD FOR EXCELLENCE IN UNDERGRADUATE TEACHING IN THE CHEMICAL SCIENCES

Notice is hereby given that the ACS Philadelphia Section invites its members to nominate candidates for the 2019 ACS Philadelphia Section Award for Excellence in Undergraduate Teaching in the Chemical Sciences.

This award will honor an outstanding, full-time educator involved in teaching an undergraduate course in the chemical sciences (i.e., chemistry, biochemistry). Nominees must teach in an institution that is within the geographical territory of the ACS Philadelphia Section (Philadelphia, Bucks, Chester, Delaware and Montgomery counties in Pennsylvania, and Burlington and Camden counties in New Jersey).

Nominations for 2019 will be accepted until February 22, 2019.

Nominations should consist of the following:

1) A letter of nomination.
2) The nominee’s resume.
3) Two letters of recommendation.
4) The total nomination package should not exceed 30 pages.

The nomination package may be e-mailed or sent to the Chair of the Awards Committee at:

ACS Philadelphia Section
Department of Chemistry
University of Pennsylvania
Philadelphia, PA 19104-6323
(215) 382-1589; e-mail PhilaACS@gmail.com

The Award Recipient will be honored at our May 2019 Section meeting with a plaque and an honorarium.
Chemistry is Out of this World! - Dr. Bill Smith, Project Coordinator

Students from across the Section’s territory participated in our annual Illustrated Poem Contest for National Chemistry Week. This year’s theme was Chemistry is Out of this World!

We had over 170 entries to judge and one week to do it! Special Thanks to Education and Outreach Committee members Mrs. Lindsay Davis, Dr. Steven Fleming, and Dr. Craig McClure for volunteering to judge and being so efficient!

This year’s winners are:

**Grades 9-12 Category**

Emma Davis – Conestoga High School, Malvern, PA

Radiant Spectrum

Radio waves, gamma rays,  
Colors of the rainbow.  
Big waves, small waves.  
Some visible, some not.  
Absorption, emission, and reflection vary,  
Yet within a spectral signature  
A compositional fingerprint resides,  
A hint of what lurks afar.  
Planets, galaxies,  
Stars ablaze.
Grades 6-8 Category

Alexander Kramer – Northley Middle School, Ashton, PA

Universe is Vast
Hydrogen and Helium
Stars shine in the sky

Grades 3-5 Category

Morgan Barnes – Sol Feinstone Elementary School, Newtown, PA

Black holes are scary
everything goes into them
and nothing comes out.

Each of the Section winners will receive a $50 prize and a First-Place certificate. In addition, their entries have been submitted to National for consideration for further prizes. The remaining entrants will receive an Honorable Mention certificate.
Hosted by the Maryland Section of the ACS
May 30th – June 1st, 2019
UMBC, Baltimore, Maryland
www.MARM2019.org

Major Symposia
- Combating the Opioid Crisis with Chemistry
- Atmospheric and Environmental Chemistry
- Nanotechnology
- Spectroscopy and Homeland Security
- Photonic Materials
- Optimization Methods in Chemistry
- Food Chemistry
- Outstanding Young Investigators in Organic Chemistry

Undergraduate and Employment Programming
- Career Pathways and Resume Review
- Panel Discussions: Recent Chemistry Grads Share Their Experiences
- Chemistry Jobs - Employers’ Perspectives
- Challenges for International Chemistry Students and Professionals
- A Special Undergraduate Luncheon with Chemistry Trivia and Prizes

Special Women Chemist Committee Programming
- Leadership Workshop: Collaborating Across Boundaries
- Panel Discussion: Science Policy & Government - A Bridge Between Research and the Public, and a Path for Non-Traditional Chemists

Chemagination - a competition for High School Students

Programming for Post-Secondary Educators
- Technology in the Undergraduate Classroom
- Humanizing Science: The Key Roles of Mentoring and Building Community

Session for Primary and Middle School Teachers
- Bringing Forensic Science Back to Your Classroom
The Visible Difference
In Laboratory Science Expositions

Join thousands of chemists and scientists from around the world at Pittcon, an all-in-one event offering a high-caliber technical program, skill-building short courses and a dynamic exposition showcasing the latest scientific instrumentation and services. We are proud to have the ACS as a co-programming partner again for Pittcon 2019. Don’t miss the ACS Poster Session, Symposia, Awards Lecture and other presentations lead by your fellow members.

Pennsylvania Convention Center | Philadelphia, PA | March 17 - 21 | www.pittcon.org
RESOURCES FOR CONSULTANTS AND ENTREPRENEURS-
AN UPDATE
CONTINUOUS FLOW REACTORS

Dr. John Newport - Chemventive and Peter Joyce MS MBA - Sentinel Process Systems

DATE & TIME: Wednesday, January 9th at The Cynwyd Club, Bala Cynwyd, PA
Networking, 5:30 PM; Dinner, 6:30 PM; Talk and Business Session, 7:30 PM

Abstract: Finding work and having access to free or inexpensive resources are key imperatives for those of us in the consulting community. In this short presentation, John will provide an update to similar presentations he has given in the past. Members are encouraged to provide links to resources they have found useful so that they can be included in the update and subsequently published in the resources section on the CCN website.

Flow chemistry represents the conversion of classical batch reactions to continuous operation. These reactions exploit the large difference in surface area to volume ratio of batch vs continuous and opens up new chemical pathways for development since flow reactions can be done at higher temperatures and pressures and avoid intermediate production of hazardous substances. Continuous systems have much smaller footprints and allow for capital cost savings of 25 to 50%. This talk will provide a general introduction to flow chemistry and provide examples of new installations and approaches.

Biographies: Dr. John Newport, a past Chair of CCN, provides consulting and R&D services through Chemventive LLC. Prior to this he was a Senior Research Fellow at Hercules Incorporated where, in his 34-year career, he worked on the R&D side of the fibers, film, RIM, resins and paper chemicals businesses. His areas of expertise cover polymer chemistry, surface chemistry, emulsions, rheology and transport phenomena. As well as working with established Clients he is an avid and successful solver of open innovation challenges

Peter Joyce has over 30 years of chemical industry expertise in Flavors and Fragrances, Precious Metal Refining and Phase Transfer Catalysis. He has installed or managed the installation of over 200 chemical industry capital projects. He has a MS in ChemE from U.C. Berkeley, A BS in ChemE from Northeastern and an MBA from Columbia. He is the co-author of three patents including one that is the basis for the largest BACT – Best Available Commercial Technology - commercial installations in the United States for environmental control of an ozone depleting substance, methyl bromide. He currently works for Sentinel Process Systems as their Systems Integration Director.

Location: The Cynwyd Club, 332 Trevor Lane, Bala Cynwyd, PA 19004. MAP DIRECTIONS

Reservation: Click here to register to attend the event. Fee, including dinner and non-alcoholic beverages, is $30 by reservation/cancellation deadline: Saturday, January 5, 2019.
Present: Melissa Cichowicz, Deborah Cook, Jason Cross, Ella Davis, Rick Ewing, Anne DeMasi, Erin Fruchey, Sharon Haynie, Alan Heldon, Lee Hoffman, Kathie Lysko, James Murray, Kathleen Thrush Shaginaw, Michael Vogel, Elizabeth Wagoner, Flory Wong

Absent: Victor Tortorelli

Excused: David Cichowicz, Joseph A. Martino, Christie McInnis, Rick Ewing

Also present:

The 700th Board Meeting of the Philadelphia Section, ACS, was called to order at 5:04 PM. A quorum was present. This meeting was conducted electronically via GoToMeeting. Reports were submitted electronically.

1. Minutes
   • The Minutes of the March 2018 Board meeting, on motion, were approved with 0 nays and 1 abstention.
   • The Minutes of the April 2018 Board meeting, on motion, were approved with 0 nays and 0 abstentions.

2. Officers
   A. Chair, Elizabeth Wagoner, ewagoner22@gmail.com
      1. Philadelphia Section Teaching Awards, May 17th, University of the Sciences. Speaker: Dr. Andy Jorgensen, Associate Prof. Emeritus of Chemistry, Univ. of Toledo. *Global Climate Disruption: How Do We Know? What Can We Do?* The Chair wishes to thank the Chair-Elect, Flory Wong, for her work that made the Section Teaching Awards possible.
      2. Lunch Honoring 50, 60, and 70-year members, June 21st, 11:15 AM, Union League, Philadelphia.
      3. Discussion of creating appropriate brochures for award events describing the award recipients. Former practice. Templates available. Referred to Dave Cichowicz.
      5. October Meeting, Section Award
      6. November Meeting, Ullyot Lecture

   B. Chair-Elect, Flory Wong, flory.wong@gmail.com
      Preparation for the May 17th Teaching Awards is going well.

   C. Secretary, Alan Heldon, alan.heldon@live.com
      No report.

   D. Treasurer, David Cichowicz, cichowic@lasalle.edu
      No report.

   E. Past Chair’s Report, Deborah H. Cook, deborahcook72@gmail.com
      1. A full slate of candidates for the Section election was presented, and, on motion, was approved with 0 nays and 0 abstentions.
      2. As the resignation of the 2018 Chair-Elect, effective June 2018, will create a future vacancy in the 2019 office of Chair, pursuant to the Section Bylaws, the 2018 election of the Chair-Elect will be used to fill the office of Chair-Elect for 2019 and the office of Chair for 2019. There are three candidates for the office of Chair-Elect. Discussion.
      3. The resignation of the Chair-Elect effective June 2018 creates a vacancy in the office for July through December 2018. Pursuant to the Bylaws this vacancy may be filled by interim appointment. Since the Chair-Elect is the chair of the Ullyot Committee, which will be considering the 2019 lecturer, and performs other work in preparation of various 2019 awards, the vacancy must be filled. Discussion. Mike Brignone, having agreed to serve, and on motion, was appointed Chair-Elect for July-December 2018. No nays, no abstentions.
3. Committees
   A. Education and Outreach Committee, Bill Smith, willsmith2@aol.com

Events and Status
   1. National Chemistry Olympiad, Project Coordinators: Laura Grande (grandel1@lasalle.edu), Craig McClure (cpm76@drexel.edu)

   Twenty-one students representing fifteen different schools participated in the USNCO National Examination on April 21st at LaSalle University. These students were selected from the 712 participants in the USNCO Local Exam, from 39 participating schools. One of the students in the section, Ruochen (Jerry) Li from Upper Dublin High School was recognized with Honors from the ACS for his performance on the National Exam.

   2. Chemists Celebrate Earth Week, April 22 – 28, 2018, Project Coordinator: Bill Smith (willsmith2@aol.com)

   The Illustrated Poem Contest: K-12 students from throughout the Section area were invited to create an illustrated poem on the theme of “Dive Into Marine Chemistry.” All participants will receive a certificate and the first-place winner from each grade category will receive a check for $50. Our first-place winners have proceeded to National for the next level.

   Section Winners:
   - K-2 Robert Raushi, Pennell Elementary School, Aston, PA
   - 3-5 Faye Liu, Parkside Elementary School, Brookhaven, PA
   - 6-8 Matt Corr, Devon Prep., Devon, PA
   - 9-12 Sara Hughes, Bristol High School, Bristol, PA

   Volunteers: Liz Bish, Steve Fleming, Lee Hoffman, Jean Mihelcic, Kathleen Thrush, Shaginaw, Deborah Fox Walsh, and Wenqing (Vicky) Xu

   3. CHEMAGINATION, April 1 – 27, 2018, Project Coordinator: Bill Smith (willsmith2@aol.com)

   Students wrote a notional article for ChemMatters, an ACS high school magazine. The articles were set in the year 2043 and reported on the outcome of an important discovery in 2018. There were four categories for the articles. Each member of each team will receive a certificate and the first-place winners in each category will receive a check for $50. Section winners will proceed to Nano-MARM level competition at Lehigh University on June 3rd.

   Section Winners by Category:
   - Alternative Energy Sources: Josephine Nguyen and Ashley Clark, Nazareth Academy High School, Philadelphia, PA
   - Environment: Regina Campion and Allison Lowell, Saint Basil’s Academy, Jenkintown, PA
   - Medicine/Healthcare: Maria Nido and Cathryn Zimmerman, Saint Basil’s Academy, Jenkintown, PA
   - New Materials: Angela Carter, Lauren Courtney, and Liz Kasmer, Saint Basil’s Academy, Jenkintown, PA
   - Volunteers: Steve Fleming and Kathy Shaginaw

   4. Philadelphia Science Festival, Saturday, April 28th, 10 AM – 4 PM on the Benjamin Franklin Parkway, Project Coordinators: Tom Umile (umile.t@gmercyu.edu)

   The Carnival hosted over 150 sponsored booths and thousands of visitors. At the Section booth, visitors learned about cross-linking polymers and prepared "slime" samples from guar gum and borax. The demonstration attracted a huge crowd, and 450 "slime" samples were made.

   Volunteers: Doug Gisewhite, Melissa Grenier, James Healy, Shana Barrett Zeitlin, and Destini Stanton

   5. Project SEED, Project Coordinator: Lee Hoffman (lwh28@drexel.edu)

   Kristen Gilmore was awarded a Project SEED Scholarship for her participation in Project SEED last year. Only 28 of these scholarships were given out this year. Kristen will be graduating from Bristol High School in June and did her work at Solvay in Bristol. She will be majoring in chemistry at U.Sci. starting in the fall.

   Two venues this summer: Bureau of Laboratory Services, Philadelphia Water Department Solvay. Bristol, PA, Volunteer: Bill Smith

   Brief discussion of the best way for the Section to express its appreciation of the many volunteers that make the foregoing E&O Committee events a success.
B. Career Services, Joe Martino, acsphillycareerservices@gmail.com

1. The Career Services/Philly YCC/ACS BIOT Mid-Atlantic Student Chapter career event scheduled for October 11th in the Villanova Room of the Connelly Center of Villanova University continues to progress in smooth fashion. The team is now focused on formulating a list of participants for the speed networking portion of this event as well as inviting local ACS Career Consultants to participate. Mike Vogel and Doug Gisewhite of Philly YCC and Kelsey O’Donnell of the ACS BIOT Mid-Atlantic Student Chapter are coordinating with Joe Martino of Career Services on this event.

2. The Career Club is currently being held on May 15th at the same time as this present Board meeting is being held. Brian H. Getson, Esq. of the Philadelphia law firm of Getson and Schatz is present to provide immigration law advice to those who request it. A report on the turnout of the Career Club will be provided at next month’s Board meeting. Career Services is concerned about repeated conflicts of Career Services events with Section programming and will be happy to assist with any efforts for centralizing a Section calendar system to avoid future conflicts.

3. Career Services participated in a teleconference with Kimberly Browne and Malahat Layazali of ACS Staff to assist with ACS National’s efforts to host an ACS Career Fair that is local and specific to the ACS Philadelphia Section. The Career Fair will take place on Saturday, September 15th at a venue to be determined. The entire cost of the Career Fair will be covered by ACS National. The general program will consist of local employers who are seeking candidate for employment, mock interviews, resume reviews and ACS Career Pathways programming, with a modified format to be determined. Career Services will be assisting ACS National with contacts of hiring managers and recruiters, suggestion for venues as well as local employment trends. Local ACS Career Consultants will provide support to ACS National for this effort.

4. Career Services has made significant connections with the AIChE Delaware Valley Section and with the STLE Philadelphia Section. Both organizations have expressed an interest in working with the Section in some way. Career Services will follow up with both organizations for any potential opportunities.

5. Career Services has discussed employment concerns regarding pending layoffs, transfers, relocations and closures involving several Philadelphia area companies. Our hope is that the pending Career Fair on September 15th will address some of these concerns.

6. Dr. Joseph Moore, a researcher with Dow Chemical in Collegeville, PA who earned his PhD at the University of Wisconsin-Madison, has been approved by ACS National to serve as an ACS Career Consultant. This brings the total number of ACS Career Consultants local to the ACS Philadelphia Section to five. Welcome, Joe!

C. Younger Chemists Committee, Christine McInnis, mcinnis@gmail.com

19th Annual YCC Poster Session

1. The YCC held their 19th Annual Poster Session on April 10th at Temple University. There were more than 100 poster presenters including high school, undergrad, and grad students and post-docs. In order to ensure each poster was judged in duplicate, there were more than 25 judges from industry and academia. In total, nearly 200 people attended the event.

2. This year’s student planning team included Taylor Keller, Isabella Goodenough, Samer (Sam) Daher, Tolga Karsili, Rachel Parise, Megan Van Vliet, and Evan Samples from Temple University. These students coordinated the logistics including finding a location on campus, coordinating the catering, obtaining the poster boards, figuring out parking for guests, and designing the venue layout. In addition to the student planning team, Douglas Gisewhite, Thomas Umile, and Christie McInnis helped the team to facilitate the registration process, develop the rubric, make the advertising flyers, and share past experiences. While Michael Brignone was unable to join in person this year, he helped the team coordinate judges and get certificates for the winners in advance of the event. The team also coordinated the grad school and career fair.

3. One of the concerns of holding the poster session at Temple was the extra expenses associated with using their facilities. In order to ensure that there were enough funds, Tolga worked with the Temple Team to obtain additional funding from Gaussian and the Temple Chemistry Department. The YCC on behalf of the Section thanks these donors for their generous support of the poster session.

4. Taylor, Isabella, and Sam worked with last year’s student planning team at University of the Sciences to learn the ropes of planning a poster session and pitched in to help finalize last year’s program book.

5. This year’s grad school and career fair had tables from the University of Pennsylvania, Bryn Mawr, Villanova, GlaxoSmithKline, and Getson Immigration Lawyers.
6. In addition to the funding donations from Gaussian and Temple University, the planning team wishes to thank the University of Pennsylvania for their sponsorship of the People’s Choice Award and Dr. Tony Addison for his personal sponsorship of the Best Undergraduate Inorganic Poster.

D. Council Affairs Committee, Anne DeMasi, anne.demasi@lanxess.com
A full complement of Section Councilors will attend the Fall National Meeting.

4. Other Business
Discussion of Teleconferencing and Email Voting Protocol
1. The Section has completed one Board Meeting (April 2018) where all participants participate by teleconferencing and are about to complete a second (May 2018) all teleconference meeting. The virtues of teleconferencing versus face-to-face meetings was discussed. Scheduling was discussed – use of a fixed date (i.e. third Thursday) versus scheduling with Doodle Pole.
2. Protocols for voting by email were discussed. Need to report results of email voting at next Board Meeting was discussed.
3. Circulation of motions for discussion and email vote and restriction (or not) of discussion and question to only Officers and Directors was discussed. This matter is to be directed by the Secretary to the Office of General Council.

There being no additional business before the Board, the meeting, on motion, was adjourned at 6:14 PM.

Respectfully submitted,

Alan R. Heldon, Secretary, alan.heldon@live.com

701st BOARD OF DIRECTORS MEETING
June 13, 2018
Electronic Meeting

Present: Melissa Cichowicz, Deborah Cook, Ella Davis, Rick Ewing, Sharon Haynie, Alan Heldon, Lee Hoffman, Kathie Lysko, Joseph A. Martino, Christie McInnis, Victor Tortorelli, Elizabeth Wagoner

Absent: David Cichowicz, Erin Fruchey, James Murray, Kathleen Thrush Shaginaw

Excused: Jason Cross, Anne DeMasi, Michael Vogel, Flory Wong

Also present: Liliana Suarez, CJ Bruner

The 701st Board Meeting of the Philadelphia Section, ACS, was called to order at 5:05 PM. A quorum was present. This meeting was conducted electronically via GoToMeeting. Reports were submitted electronically.

1. Minutes
The Minutes of the May 2018 Board meeting, on motion, were approved as amended with 0 nays and 1 abstention.

2. Officers

A. Chair, Elizabeth Wagoner, ewagoner22@gmail.com
   1. Report and discussion of finalists for the Phila Section CHEMLUMINARY Award.
   2. The lunch honoring 50, 60, and 70-year members, will be June 21st, 11:15 AM, at the Union League, Philadelphia.
   3. Thursday, September 27th Section Meeting (4th Thursday) Drexel University, Chemistry of Chocolate, Culinary students preparing/serving dinner.
   4. October Meeting, Section Award
   5. November Meeting, Ulliot Lecture
   6. December Meeting, party, to be determined
B. Chair-Elect, Flory Wong, flory.wong@gmail.com
1. Outgoing Chair-Elect unable to attend.
2. Introduction of incoming Chair-Elect Mike Bignone.
3. Review of Ullyot Fellowship Award and discussion. 2018 Ullyot Lecturer will be Jennifer Doudna.

C. Secretary, Alan Heldon, alan.heldon@live.com
No report.

D. Treasurer, David Cichowicz, cichowic@lasalle.edu
No report

E. Past Chair’s Report, Deborah H. Cook, deborahcook72@gmail.com
Report of need for a poster for the Chemluminary program at August National Meeting and other uses. The poster will highlight local section 2017 activities. Contribution of photos would be appreciated. Discussion of printing the poster on paper or cloth. Cloth offers longevity. Printing on cloth was approved without motion.

3. Committees
A. Career Services, Joe Martino, acsphillycareerservices@gmail.com
1. Progress on the Career Services/Philly YCC/ACS BIOT Mid-Atlantic Student Chapter career event at Villanova University continues. The event is currently being rescheduled for the first week of October 2018 due to scheduling conflicts with speed networking participants and some of the ACS Career Consultants serving the event. The group is currently seeking a low-cost provider of photography for LinkedIn photos. Focus continues on participants for speed networking. Finally, a $1,000.00 ACS Corporation Associates Local Section Grant has been awarded for this event. Mike Vogel and Doug Gisewhite of Philly YCC and Kelsey O’Donnell of the ACS BIOT Mid-Atlantic Student Chapter are coordinating with Joe Martino of Career Services on this event.
2. The next Career Club will take place on July 26th, 2018 from 4:00 PM to 6:00 PM at The Community Center of the Giant Super Food Store in Willow Grove, Pennsylvania. Publicity for this event has begun. The Career Club will be immediately followed by the Career Services Committee Strategy Meeting, to take place from 6:00 PM to 8:00 PM.
3. Career Services welcomes Joe Moore, our newest ACS Career Consultant and a researcher with Dow Chemical in Collegeville, PA, to the Career Services Committee.

B. Communications Committee, Liliana Suarez, liliana.y.suarez@gmail.com
Report on the Catalyst’s advertising manager. Except for a recent partial payment, no payments had been received for advertising revenues from MBO since last summer. The Communications Committee is seeking explanations and to collect all outstanding monies from MBO. Discussion of options including terminating MBO’s services.

4. Other Business
A. Program Planning Committee
Concerns as to 2019 section programs planning were raised in light of Flory Wong’s resignation as Chair-Elect and the appointment of an interim Chair-Elect. Broad ranging discussions followed.
Discussion of developing a long-range calendar of events to facilitate searching for venues and speakers.
Discussion of possible multi-section meetings and events for 2019 and planning requirements.
Discussion of planning and scheduling requirements for section monthly meetings. Some monthly meetings programs permit no discretion as to the month the program will occur (i.e. Ullyot Lecture).
Broad discussion of developing a program planning committee to assist the Chair-Elect in developing the upcoming year’s meeting programs. Planning Committee to begin work as quickly as possible.

B. Email Voting
The Secretary advised that Robert’s Rules specifically disallows email voting. A lot of discussion.
As the Board must vote on the Section Award winner prior to the September Board Meeting an email vote or calling a special (teleconferencing) meeting is unavoidable. An email vote was preferred by the Board. The Secretary is to develop an email voting protocol for this vote.

There being no additional business before the Board, the meeting, on motion, was adjourned at 6:38 PM.
Respectfully submitted, Alan R. Heldon, Secretary alan.heldon@live.com
DIRECTORY OF SERVICES

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All committees are looking for new members and several are looking for "take charge" chairs. Some, like the Teller’s Committee, involve minimal work—one night per year and pizza provided. Others, like positions on Communications or Social Committees, involve one or two hours per month.

Committee details can be found at:

www.membership.acs.org/p/philadelphia

or by calling the Philadelphia Section Office (215) 382-1589.

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# PHILADELPHIA SECTION, ACS
## CURRENT CALENDAR OF ACTIVITIES

<table>
<thead>
<tr>
<th>Date and Time</th>
<th>Event</th>
<th>Location/Information</th>
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| Wednesday, January 9     | Chemical Consultants Network Meeting: *Resources for Consultants & Entrepreneurs – An Update and Continuous Flow Reactors* by John Newport (Chemventive) and Peter Joyce (Sentinel Process Systems)   | The Cynwyd Club  
332 Trevor Lane  
Bala Cynwyd, PA  19004  
http://chemconsultants.org/ |
| 5:30 PM Networking       |                                                                       |                                                                                      |
| 6:30 PM Dinner           |                                                                       |                                                                                      |
| 7:30 PM Talk & Business Session |                                                                       |                                                                                      |
| Thursday, January 10     | Joseph Priestley Society Meeting: *Diffusing Knowledge to Workers: The Heroic Mechanics’ Institute Movement* by Robert G.W. Anderson | Science History Institute  
315 Chestnut Street  
Philadelphia, PA  19106  
See webpage for details: https://www.sciencehistory.org/event/joseph-priestley-society-luncheon-201901 |
| 11:30 AM – 2:00 PM       |                                                                       |                                                                                      |
| Thursday, January 10     | The Chromatography Forum of the Delaware Valley Monthly Meeting: *Large Molecule Analysis* by Robert Luo (GSK) & Joshua Fuller (GSK) | DiFabios Events  
1243 N. Providence Road  
Media, PA  19603  
website: http://www.cfdv.org/meetings/Topic+Large+Molecule+Analysis |
| 5:00 – 8:30 PM           |                                                                       |                                                                                      |
Mendel Hall, Room 213  
800 Lancaster Avenue  
Villanova, PA  19085  
See webpage for details: http://science.widener.edu/svb/msdg/ |
| 6:00 PM Social hour      |                                                                       |                                                                                      |
| 7:00 PM Talk             |                                                                       |                                                                                      |
| Wednesday, January 16    | Technology Forum of Delaware: *What’s Happening in Anti-Aging Research* by Jim Lee (Strategic Foresight Investments) | Harry’s Savoy Grill & Ballroom  
2020 Naamans Road  
Wilmington, DE  19810  
Website: http://techforunde.org/event-3132279 |
| 5:50 – 7:30 PM           |                                                                       |                                                                                      |
| Wednesday, January 16    | ACS Delaware Section Meeting: *Cannabis as Medicine* by Sara Jane Ward (Temple University) | DuPont Country Club  
Wedgewood Room  
1001 Rockland Road  
Wilmington, DE  19803  
| 6:00 – 8:00 PM           |                                                                       |                                                                                      |
| Thursday, January 17     | ACS Philadelphia Section Meeting: *Chemistry and the Economy* by JP Northrop (Edward Jones Investments) and Brewery Tour. For details see this issue of the Catalyst | Workhorse Brewing Company  
250 King Manor Drive  
King of Prussia, PA 19406  
| 6:00 – 8:00 PM           |                                                                       |                                                                                      |
| Wednesday, February 13   | Joint ACS-CCN Meeting: *Discovery of a Blockbuster Drug and Chan-Lam Coupling Reaction* by Patrick Y. S. Lam – Distinguished Professor, Baruch S. Blumberg Institute | The Cynwyd Club  
332 Trevor Lane  
Bala Cynwyd, PA  19004  
Chemical Consultants Network - Feb. 2019 Mtg: DISCOVERY OF A BLOCKBUSTER DRUG AND CHAN-LAM COUPLING REACTION |
| 5:30 – 8:00 PM           |                                                                       |                                                                                      |

Please check the individual websites for additional updated information

All content submissions are due on the 15th day of the month prior to publication