

# the Catalyst



Official publication of the Philadelphia Section, ACS  
<http://philadelphia.sites.acs.org>

October 2016  
Volume 101, No. 9



**Philadelphia Section Award Winner**  
**Dr. Anthony W. Addison**  
**Drexel University**

## HIGHLIGHTS

Comments From the Chair	145
News Atoms	145
Speaker's Biography	147
NCW Poetry Contest	149
Calendar of Events	156

## ADVANCE NOTICE

### NOVEMBER MEETING

**NOTE: This is the second Thursday**

**Thursday, November 10, 2016**

**2016 Ulliyot Public Affairs Lecture**

**Presenter: Sir James Fraser Stoddart**

***Mingling Art and Science***

315 Chestnut Street, Philadelphia, PA

[www.eventbrite.com/e/ulliyot-lecture-sir-james-fraser-stoddart-tickets-27029569169](http://www.eventbrite.com/e/ulliyot-lecture-sir-james-fraser-stoddart-tickets-27029569169)

See the NOVEMBER issue of *the Catalyst* for details,  
call the Section Office at (215) 382-1589 or email [PhilaACS@gmail.com](mailto:PhilaACS@gmail.com).

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## CONTENTS

November Advance Notice .....	143
Comments From the Chair .....	145
News Atoms .....	145
October Meeting .....	146
Speaker's Biography .....	147
Young Industrial Polymer Scientist Award .....	148
NCW Poetry Contest .....	149
2017 Philadelphia Section Election Slate.....	150
Volunteers Needed for PAGES™ Mini - Conferences .....	151
Chemical Consultants Network.....	152
May Board of Directors Meeting .....	153
Directory of Services .....	155
Calendar of Activities .....	156

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phone: (781) 837-0424; email: cust-svc@mboservices.net.

## **Comments From the Chair**



### **Dr. Rick Ewing**

The August 252<sup>nd</sup> ACS National Meeting was a huge success with nearly 13,000 attendees. I sincerely thank all who volunteered their time at the local section booth or helped with the meeting planning and logistics. Several members volunteered at an outreach event at Franklin Institute on the Saturday before the start of the National meeting. There were eight experiment stations in the Rotunda. The current ACS President, Donna Nelson, and the Moles stopped by the venue. The YCC organized two symposia, held a fun run and a net-working social hour. The link below captures the local section and YCC fun run (produced by Alan Heldon). <https://youtu.be/soF8SA300OE>

We have several hallmark events coming up this fall. The Philadelphia Section Award will be held on October 19<sup>th</sup> at Drexel University with Dr. Anthony W. Addison delivering the award address. On November 10<sup>th</sup>, the Ulliot Public Affairs lecture will be given by Sir James Fraser Stoddart and will be held at the Chemical Heritage Foundation. More information on these events and several others can be found in ACS Activities Calendar.

Included in this edition of *the Catalyst* are the names of the candidates running for election to positions of Chair-Elect, Councilors, and Directors for our local section. In addition, we have the upcoming National elections. As only 15% of the membership votes in these elections, I encourage everyone to please vote in the upcoming election to help shape the future of our section and of ACS National.

Respectfully, Rick Ewing

---

## **NEWS ATOMS—Alan Warren**

### **DEATHS**

**William E. Smith**, research chemist, May 9, 2016 at 77. He began his career as a technician and later became laboratory manager at General Electric where he authored many technical papers and 40 patents in the fields of organosilicon and organometallic chemistry and catalysis. He then moved to Polaroid where he was named director of chemical research, retiring after eight years.

**Samy Faltas**, July 5<sup>th</sup> at 71. He was a principal in the firm Service for Science and Industry, Inc.

**Murray Schwartz**, radiologist, August 18<sup>th</sup> at 72. After working in the Peace Corp in the Marshall Islands and a chemical weapons unit in the US Army he joined Rohm & Haas as a research chemist during the early 1970s. He then earned his medical degree and spent his residency in radiology, later serving as staff radiologist at several hospitals. From 2008 to 2011 he was assistant professor of radiology at the University of Kentucky medical center in Lexington.

## **OCTOBER MEETING**

Board of Directors Meeting  
Drexel University (University Club, Skyview Lounge)  
4:00 – 5:00 PM

## **THE PHILADELPHIA SECTION AWARD**

**Wednesday, October 19<sup>th</sup>**

**(NOTE Change of Day)**

**5:00 – 9:30 PM**

**Dr. Anthony W. Addison**  
***Confessions of an Itinerant Molecularist***

**DREXEL UNIVERSITY**  
University Club (Skyview Lounge)  
MacAlister Hall 6<sup>th</sup> floor  
3250-60 Chestnut Street  
Philadelphia PA 19104

Reception 5:00 PM  
Lecture 6:00 PM  
Dinner 7:30 PM

University Club (Skyview Lounge)  
Reservations:

<https://www.eventbrite.com/e/the-philadelphia-section-award-tickets-28147808854>

Or by contacting Section Office  
PhilaACS@gmail.com  
(215) 382-1589

Reception and Lecture are free  
Dinner Price: \$50; Students with ID: \$25

## **SPEAKER'S BIOGRAPHY**

**Dr. Anthony W. Addison**

Drexel University

Anthony W. (Tony) Addison emerged onto this planet in a hospital in an inner suburb of Sydney in 1946. Despite this setback, Australia managed to prosper, soon becoming one of the five largest global economies of the 1950s era. His family at that time lived on a dairy farm in a small town in northern coastal New South Wales, but after a few years moved to the northern beaches Sydney suburb of Dee Why, where he grew up<sup>[1]</sup>. With him always curious about the behaviour of stuff<sup>[2]</sup>, his interest in chemistry was possibly sparked by the mysterious jars in his older brother's rather neglected chemistry set, which contained prettily crystalline and coloured substances, some of which had strange odours or tastes (lead acetate!). At Manly Boys' High School<sup>[3]</sup> he had two skilled chemistry teachers, Don Johnson and Andy Watson. Remarkably, Watson had been a geologist with Mawson's 1911 Australasian Antarctic Expedition.<sup>[4]</sup>

Tony received his BSc (Hons-I) in Applied Chemistry in 1968 from the University of New South Wales (well-known for its rôle in the development of post-war Inorganic Chemistry), publishing his first research article under the tutelage of Assoc. Prof. D.P. Graddon. His supposedly voluntary departure from Australia led him to the PhD program at the University of Kent at Canterbury, where he worked with Prof. R.D. Gillard on rhodium compounds, further developing his interests in transition metal chemistry. After completing his PhD work, he crossed the Atlantic in 1970 to Northwestern University in Evanston, where he worked with Prof. I.M. Klotz on an NIH-funded Postdoctoral Fellowship (1970-72). This was where he learned about what was for him a new field - Physical Biochemistry of metalloproteins. Northwestern played another instrumental part in his life in that it was there that he and his wife Barbara met and were married in 1972. He then took up an Assistant Professor position at the University of British Columbia (1972-78), a period during which Tony and Barbara made their first Pacific crossing, completing his circumnavigation of the globe. In 1978, Drexel Chemistry Head Prof. J.G. Kay made Tony an offer he couldn't refuse<sup>[5]</sup>, and Barbara persuaded the US to let him back in, so that he assumed his position in the Chemistry Department at Drexel. Now a Professor in the department for over 20 years, he previously served as Assistant and Associate Head and also as Head of the department.

Tony's research endeavours reflect his curiosity and wide interests. He and his co-workers have produced about ten dozen research articles encompassing bioinorganic, organic and transition metal chemistry, several of which are quite highly-cited. They have also produced several articles on educational topics and experiments and 130 conference presentations and he has been coauthor/coeditor of two books.

The Drexel undergraduates note his infectious enthusiasm for chemistry and he was a Christian and Mary Lindback Distinguished Teaching Awardee in 1987. Other honours include the John van Geuns Fonds Lectureship at the University of Amsterdam (1985) and the Section's Ulliyot Service Award. He has been elected a Fellow of the Royal Society of Chemistry (Great Britain), a Fellow of the American Chemical Society and also of the Royal Australian Chemical Institute. He is also a member of the Canadian Society for Chemistry and the International EPR/ESR Society. Tony has actively supported our Section's activities as a member of the Communications Committee since 1981 and in the Section's Chairmanship succession (1989), when he inaugurated one of the Section's pre-college teaching awards. He has represented the Section nationally on the ACS Council for over a decade, serving on three national committees, and has been active in organising activities in the ACS's Mid-Atlantic Region for almost 20 years.

Tony and Barbara, parents of two sons, are now empty-nesters, residing in Swarthmore, PA. They have been active advocates for people with autism. Tony lists reading, listening to and supporting classical music (he and Barbara are 30-year subscribers to the Philadelphia Orchestra), photography, wine and woodworking as hobbies.

<sup>[1]</sup> A concept disputed by his sister-in-law.

<sup>[2]</sup> Mud has always been a back-yard favourite substance of small boys.

<sup>[3]</sup> Yes, there was also a Manly Girls' High School.

<sup>[4]</sup> Tony also met AAE member C.H. Laseron and 1929 Banzare member H.O. Fletcher.

<sup>[5]</sup> With apologies to F.F. Coppola.



### YOUNG INDUSTRIAL POLYMER SCIENTIST AWARD



We are excited to announce the inaugural **Young Industrial Polymer Scientist Award** sponsored by the Division of Polymer Chemistry Industrial Advisory Board (POLY IAB) to be presented at the Fall 2017 ACS Meeting in Washington, DC on Monday, August 21, 2017.

This award is to recognize outstanding industrial innovation and creativity in the application of Polymer Science conducted by early career industrial scientists. Nominees must have worked in an industrial facility for a minimum of 3 years and also must be under the age of 40 at the time of nomination.

More detailed information on the Young Industrial Polymer Scientist Award and a link to the downloadable nomination form can be found at:

<http://www.polyacs.org/1256.html>

The nomination and its accompanying material for the 2017 award must be received by the Awards Chair **no later than October 31, 2016**.





## National Chemistry Week 2016 Illustrated Poem Contest: “Solving Mysteries Through Chemistry”

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

Contest Deadline: Contest entries must be postmarked by **November 2, 2016**

Prizes: \$50.00 for the winner of each grade category  
(grades K-2 / grades 3-5 / grades 6-8 / grades 9-12)

Contact: Dr. William R. Smith, National Chemistry Week Coordinator, Philadelphia  
willsmith2@aol.com / 267-987-5395

Winners of Philadelphia Local Section illustrated poem contest will advance to the ACS National Illustrated Poem Contest!

Write and illustrate a poem using the NCW theme, **“Solving Mysteries Through Chemistry”**.  
Your poem must be **no more** than 40 words, and in the following styles to be considered:

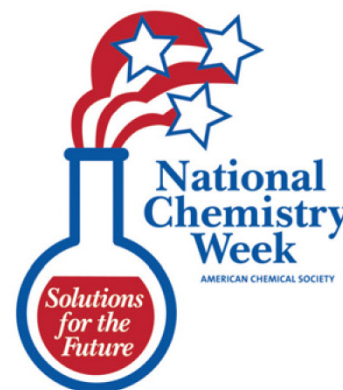
HAIKU • LIMERICK • ODE • ABC POEM • FREE VERSE • END RHYME • BLANK VERSE

Participants are encouraged to explore topics related to:

- DNA
- Fingerprints
- Art Forgeries
- Pigments
- Invisible Ink

Entries will be judged based upon:

- Relevance to and incorporation of the theme
- Word choice and imagery
- Colorful artwork
- Adherence to poem style
- Originality and creativity
- Overall presentation



### Contest Rules:

- Poems must conform to a particular style. No poem may be longer than 40 words.
- The topic of the poem and the illustration must be related to the NCW 2016 theme, **“Solving Mysteries Through Chemistry”**.
- All entries must be original works without aid from others.
- Each poem must be submitted and illustrated on an unlined sheet of paper (of any type) not larger than 11" x 14". The illustration must be created by hand using crayons, watercolors, other types of paint,

colored pencils or markers. The text of the poem should be easy to read and may be printed with a computer, before the hand-drawn illustration is added, or the poem may be written on lined paper which is cut out and pasted onto the unlined paper with the illustration.

- Only one entry per student will be accepted.
- All entries must include an entry form.
- All illustrated poems and/or digital representations of the poems become the property of the American Chemical Society.
- Acceptance of prizes constitutes consent to use winners' names, likenesses and entries for editorial, advertising and publicity purposes.

American Chemical Society

## 2017 Election Philadelphia ACS Local Section Candidates

### Chair-Elect

Elizabeth Wagoner  
Judy Cohen

### Treasurer

David Cichowicz

### Directors

Joseph Martino  
Tara Nickels  
Lee Hoffman  
Anne DeMasi  
Mark Pares  
Kathleen Thrush Shaginaw  
Kathryn Lysko  
Cynthia Palmer  
Craig McClure  
Michael Castaldi

### Councilors

Christine McInnis  
Marge Matthews  
Kathryn Lysko  
Michael Castaldi  
James Murray  
Mark Forman  
Judith Currano  
Lee Hoffman  
Steven Fleming  
Kathleen Thrush Shaginaw  
Alan Heldon  
Deborah Cook





*You are invited to be a volunteer at .....*

## ***The Philadelphia Area Girls Enjoying Science™ Mini- Conferences for 6<sup>th</sup> Grade Girls***

**Help inspire girls' interest in science and mathematics.**

**When:** Saturday, November 5, 2016  
& April 22, 2017  
9:00 AM - 1:30 PM

**Where:** Chestnut Hill College  
9601 Germantown Avenue  
Philadelphia, PA 19118

Volunteers are needed to bring an experiment to share with three small groups of girls (4 – 7 students each). Experiment leaders must have a bachelors' degree in a science. Students are encouraged to be part of the fun and help these experiment leaders.



As a result of new PA legislation, all adult volunteers having direct contact with children will need at least two criminal background checks. There is no cost for these checks if you are a long-time PA resident.



**For more information and to**

**Register:** Contact Dr. Kathy Thrush Shaginaw ([kshaginaw@ccp.edu](mailto:kshaginaw@ccp.edu)) and visit <http://www.PAGESprogram.org>.

This program is made possible through generous support from the Philadelphia Section of the American Chemical Society and its Women Chemists Committee (ACS WCC), the Philadelphia Chapter of the Association for Women in Science (AWIS), and the American Association of University Women (AAUW) Makefield Area Branch, PA, Inc., the Chemical Heritage Foundation, VWR Scientific, Fisher Scientific, Merck & Co, Inc., and the employers of the women scientists.



**CHEMICAL CONSULTANTS NETWORK  
October 19, 2016 Meeting**

**THE ART & SCIENCE OF BUSINESS VALUATION**

**Frank L. Merenda**

**DATE & TIME:** Wednesday, October 19<sup>th</sup>, at The Cynwyd Club, Bala Cynwyd, PA  
Networking, 5:30 PM; Dinner, 6:30 PM; Talk and Business Session, 7:30 PM

[Click here to register](#)

**Abstract:** EAC Valuations LLC, has provided more than 14,000 in-depth appraisals and valuation reports since 1971, encompassing industrial and commercial real estate, machinery and equipment, intangible assets, and complete business enterprise valuations – for clients ranging from multi-national, multi-billion-dollar Fortune 100 companies, and financial institutions, to privately-held, local manufacturing and services companies. Assignments have included the valuation of chemical facilities around the world, with individual sites valued at up to more than \$1 billion. Included are polymer producers, peroxide, specialty chemicals, performance materials, combined cycle co-generation plants, chemical process boilers, private utilities and other specialty projects. Intangible asset valuations for chemicals and specialty materials include trade names/trademarks, patents, in-house technology, non-compete agreements, in-process R&D, preferred supply contracts, and customer relationship assets. EAC is an affiliate firm member of the American Society of Appraisers (ASA).

**Bio:** Frank L. Merenda has been President of EAC Valuations LLC since May 2007 when he acquired Enterprise Appraisal Company. He spent more than 25 years in the Chemical Process Industry as a business manager and engineer for Engelhard (now BASF), the PQ Corporation, Degussa (now Evonik), and Rhodia (now Solvay). Frank holds MS and BS degrees in Chemical Engineering from Rutgers College of Engineering and an MBA in Finance/Accounting from Rutgers Graduate School of Management.

**Location:** The Cynwyd Club, 332 Trevor Lane, Bala Cynwyd, PA 19004. [MAP DIRECTIONS](#)

**Reservation:** [Click here to register to attend the event](#), or e-mail [CCNReservations@aol.com](mailto:CCNReservations@aol.com) or call the CCN phone number at (877) 326-2959 and leave a message. Fee, including food and beverages (wine, beer & sodas), is \$30 by reservation/cancellation deadline: **Saturday, Oct 15<sup>th</sup>**. Dietary restrictions accommodated on a limited basis. There is no charge for talk only, but registration is suggested using contact information above.

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680<sup>th</sup> BOARD OF DIRECTORS MEETING  
May 12, 2016  
University of the Sciences, Philadelphia, PA

Present: David Cichowicz, Melissa Cichowicz, Deborah Cook, Jason Cross, Ella Davis, Anne DeMasi, Rick Ewing, Alan Heldon, Cynthia Palmer, Kathleen Shaginaw, William Smith, Tom Straub, Judith Summers-Gates, James Tarver and Elizabeth Wagoner

Excused: Douglas Hausner, Christie McInnis, JP Northrup, Victor Tortorelli

Absent: Judith Cohen

Also Present: Joe Martino, CJ Bruner, Daria Walsh, Judy Currano

The 680th Board Meeting of the Philadelphia Section, ACS, was called to order at 4:05 PM. A quorum was present.

Prior to addressing the business of the meeting, the Chair – Rick Ewing – thanked the Section’s Office Administrator – Daria Walsh – for her service to the section, noting that she would be leaving that office for personal reasons effective May 13, 2016. (See hereafter) Flowers were presented.

1. Minutes

The correct version number of the Minutes of the March Board of Directors Meeting was submitted and approved. 0 nays and 0 abstentions.

The April Board Minutes were withdrawn pending corrections.

2. Officers

A. Chair, Rick Ewing, [ewingwre@comcast.net](mailto:ewingwre@comcast.net)

The June Board Meeting, at Chemical Heritage Foundation, will be June 17<sup>th</sup>, a Friday. This board meeting will follow the 50 year member ceremony. Invitations to the 50 year member ceremony have been sent. The response has been good. Reservations are required. The program for the 50 year members includes a tour of CHF and a lecture as well as the meal.

Planning for the August National Meeting is going well.

The Section received a Leadership Development Grant.

The Section’s receipt of an Innovative Program Grant was noted.

The resignation, effective May 13, 2016, of the Section’s Office Administrator - Daria Walsh – was announced. Pursuant to the fact that the office would be unmanned, Section computer files critical to ongoing operations were copied to the Section’s cloud account. The Section has transitioned to gmail.

Chair discussed budget and funding sources and pie charted various perspectives regarding revenue distribution and operating expenses.

Chair discussed role and function of the Section’s Office Administrator, redistribution of workload from a paid employee - the Office Administrator - to unpaid volunteers and assessment of the minimum necessary hours of paid employment.

B. Chair-Elect, Deborah H. Cook, [deborahcook72@gmail.com](mailto:deborahcook72@gmail.com)

Awards Committee report – Deborah Cook, Committee Chair

Progress has been excellent. Dr. Anthony Addison was nominated for the Section Award and was approved by the Board with 0 nays and 0 abstentions. The award will be presented at the October Meeting at Drexel (tentative?).

C. Secretary, Alan Heldon, [alan.heldon@live.com](mailto:alan.heldon@live.com)

The Section has received an Innovative Project Grant (IPG) to develop member outreach and group presentation formats. The first order of business will be acquiring and evaluating the equipment enumerated in the grant. Equipment and funding allocations were discussed. A status memo was sent to Board members prior to the meeting.

D. Treasurer, David Cichowicz, [cichowic@lasalle.edu](mailto:cichowic@lasalle.edu)

The Treasurer reported: The Section received a \$500.00 seed grant from National toward the Section’s costs pursuant to August’s National Meeting. The Section received a leadership training grant from National. See above. The Section received funds from National for new member commissions. A Treasurer’s report was submitted and approved. The nays and abstentions were not called.

E. Past-Chair, Bill Smith, [willsmith2@aol.com](mailto:willsmith2@aol.com)

The term of office of five (5) Directors of the Section's Board will expire at the end of this year. Nominations are needed.

The term of office of four (4) of the Section's Councilors (Alternate Councilors) will expire at the end of this year. Nominations are needed.

Tom Straub will continue his service with the Tellers Committee. Jason Cross, a new Director, will be joining the Tellers Committee.

### 3. Committees

A. Career Services, Joe Martino, [acsphillycareerservices@gmail.com](mailto:acsphillycareerservices@gmail.com)

Philadelphia Section Career Services Concept Statement: To proactively assist Section members with their careers in a way that facilitates intra-member relationship building, develops personal growth, and assists in career establishment, maintenance and growth so that members can successfully manage their own satisfying and fulfilling careers.

Summary of May 2016 Career Services Committee Teleconference Minutes:

The April 19 Virtual Career Club event was a qualified success. Fourteen participants registered; four participated. A Survey-Monkey web survey was sent to all who registered regardless of participation; one who did participate responded and gave the Virtual Career Club good reviews. Our next Career Club will take place in September at the Community Center at the Giant Super Food Store in Willow Grove, PA on an appointment basis.

Career Services discussed marketing our workshops and finding potential leads with follow-up opportunities identified. The Committee then had a lengthy discussion about event publicity in general. Three items were stressed: 1) Publicity is a serious concern for the entire Section and is not limited to Career Services. Unfortunately, there is no short-term solution to this as Section membership has declined. However, the Section Board is making a concerted effort to correct publicity for the Section as a whole. Career Services wholeheartedly supports these efforts and will help where needed. 2) It is the expectation of Career Services and its Chair that when the Section Board offers publicity assistance to Career Services that there will be follow through just as the Section Board expects follow through from Career Services for the services it provides to the Section. 3) The Chair of Career Service remains steadfast in his commitment to ensuring that no one person on the Career Services Committee is overburdened with work as we are a volunteer committee. Career Service efforts will remain focused on our mission with respect to our Concept Statement as stated on the top of every monthly report.

ACS National has begun to charge a \$5.00 fee for resume reviews for the 2016 MARM meeting to take place at the College of Mount St. Vincent in Riverdale, NY. Career Services discussed if such a fee should be charged for the Career Club in light of this new precedent set by ACS National. It is the decision of Career Services that the Career Club remains a free service. However, workshops should have a charge to encourage people to attend and to subsidize any materials that are needed.

B. Education and Community Outreach Committee, Bill Smith, [willsmith2@aol.com](mailto:willsmith2@aol.com)

Chemists Celebrate Earth Day: K-12 Contest Poetry Contest For grades 10-12 - 5 entries received from 2 schools. These contestants will move on to National. This project is under budget.

CHEMAGINATION: The contest's challenge was to write an article for ChemMatters, a high school ACS publication, set twenty years into the future and meant to highlight the future outcome of a current discovery in the chemical sciences. One entry was received. The entrants will move on to MARM. This project is under budget.

National Chemistry Olympiad: Drexel University and LaSalle University have indicated willingness to host this event. The Olympiad was held at LaSalle last April.


There being no additional business before the Board, the meeting was adjourned at 5:09 PM.

Respectfully submitted,

Alan R. Heldon, Secretary, [alan.heldon@live.com](mailto:alan.heldon@live.com)



# DIRECTORY OF SERVICES




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— FOR —

## ACS PRESIDENT-ELECT

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**OCTOBER**

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Put "Volunteer" in the subject line or leave a message including contact information.



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## ADVERTISING INDEX

ACS	155
Micron Inc.	155
NuMega Resonance Labs, Inc.	155
Peter K. Dorhout	155
Robertson Microlit Labs	155
Tyger Scientific, Inc.	155



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**PHILADELPHIA SECTION, ACS  
CURRENT CALENDAR OF ACTIVITIES**

Date and time	Event	Location
Thursday, October 13 11:30 AM – 2:00 PM	Joseph Priestley Society: Kim Gingras, <i>Light-weighting through Composite Materials: From Aerospace to Automotive</i>	Chemical Heritage Foundation 315 Chestnut Street Philadelphia, PA 19106 <a href="https://www.chemheritage.org/event/joseph-priestley-society-kim-gingras">https://www.chemheritage.org/event/joseph-priestley-society-kim-gingras</a>
<b>Wednesday, October 19 5:00 - 7:30 PM</b>	<b>Philadelphia Section Award, Dr. Anthony W. Addison, <i>Confessions of an Itinerant Molecularist</i>.</b>	<b>Drexel University University Club (Skyview Lounge) MacAlister Hall, 6<sup>th</sup> Floor 3250-60 Chestnut Street Philadelphia, PA</b>
Wednesday, October 19 5:30 – 9:00 PM	Chemical Consultants Network: Frank L. Merenda, <i>The Art and Science of Business Valuation</i>	The Cynwyd Club Bala Cynwyd, PA <a href="http://www.chemconsultants.org/event-2323013">http://www.chemconsultants.org/event-2323013</a>
Friday, October 21 12:00 – 8:30 PM	The 38 <sup>th</sup> Annual Princeton ACS Fall Organic Chemistry Symposium	Forsgate Country Club Monroe Township, New Jersey <a href="http://www.pacsfocs.org/">http://www.pacsfocs.org/</a>
Thursday, October 27 6:00 – 8:00 PM	Philadelphia Organic Chemists' Club Presenter: Professor Fraser F. Fleming, <i>Strategic Alkylations of Nitriles and Isonitriles</i>	Chemical Heritage Foundation 315 Chestnut Street Philadelphia, PA 19106 <a href="https://www.chemheritage.org/event/synthesis-lecture-jan-golinski">https://www.chemheritage.org/event/synthesis-lecture-jan-golinski</a>
Saturday, November 5 9:00 AM – 1:30 PM	The Philadelphia Area Girls Enjoying Science™ (PAGES™) Mini-Conference for 6 <sup>th</sup> Grade Girls	Chestnut Hill College, 9601 Germantown Avenue Philadelphia, PA 19118 <a href="http://www.PAGESprogram.org">www.PAGESprogram.org</a>
Thursday, November 10 11:30 AM – 2:00 PM	Joseph Priestley Society, T. Alan Hatton, <i>Mens et Manus: One Hundred Years of MIT's School of Chemical Engineering Practice</i>	Chemical Heritage Foundation 315 Chestnut Street Philadelphia, PA <a href="http://www.chemheritage.org/event/joseph-priestley-society-t-alan-hatton">www.chemheritage.org/event/joseph-priestley-society-t-alan-hatton</a>
<b>Thursday, November 10 6:00 – 8:00 PM</b>	<b>2016 Ulliot Public Affairs Lecture Sir James Fraser Stoddart, <i>Mingling Art and Sciences</i></b>	<b>Chemical Heritage Foundation 315 Chestnut Street Philadelphia, PA 19106 <a href="https://www.chemheritage.org/ulliot-public-affairs-lecture">https://www.chemheritage.org/ulliot-public-affairs-lecture</a></b>
Tuesday, November 15	The Career Pathways Program and Lecture sponsored by YCC: Bill Carroll, ACS Board of Directors, and past president of the ACS	Bryn Mawr College Career Pathways registration <a href="https://www.eventbrite.com/e/career-pathways-tickets-27798926337">https://www.eventbrite.com/e/career-pathways-tickets-27798926337</a> Lecture registration <a href="https://www.eventbrite.com/e/career-pathways-tickets-27798926337">https://www.eventbrite.com/e/career-pathways-tickets-27798926337</a>
Thursday, December 1 8:00 PM	Philadelphia Organic Chemists' Club, Professor Timothy M. Swager, <i>Synthesis of Designer Materials</i>	Carolyn Hoff Lynch Hall Department of Chemistry University of Pennsylvania Philadelphia, PA <a href="http://www.pocclub.org/">http://www.pocclub.org/</a>