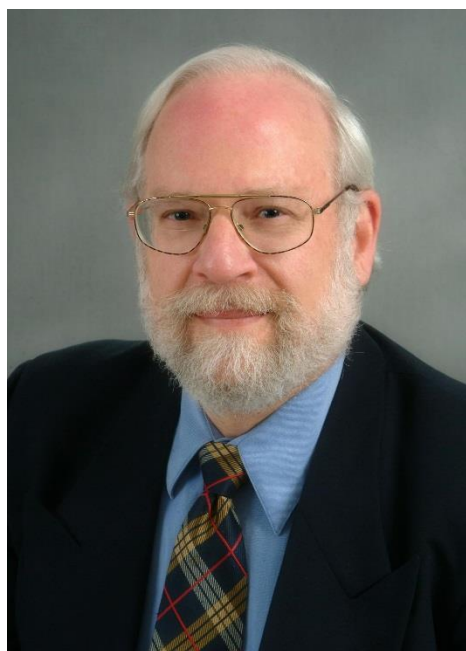


# the Catalyst



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

September 2017  
Volume 102, No. 7



**September Speaker**  
**Dr. Dennis M. Gross**

## HIGHLIGHTS

Comments From the Chair	107
News Atoms	108
Speaker's Abstract and Biography	110
Photos of 50-, 60- and 70-Year Members	116
Calendar of Activities	126

## ADVANCE NOTICE

**OCTOBER MEETING**  
**Thursday, October 19, 2017**

**Philadelphia Section Award**  
**Dr. Kurt W. Kolasinski**  
**West Chester University**

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

## STAFF

### EDITOR-IN-CHIEF

Robin S. Davis

### EDITORS

*News Atoms:* Alan Warren

*Proof Editors:* Anthony Addison  
Georgia Arbuckle-Keil  
Kendra Luther  
Corrie Kuniyoshi  
Marge Matthews  
Alan Warren

### ADVERTISING MANAGER

Vince Gale

### COMMUNICATIONS COMMITTEE

**Chair:** Liliana Suarez

Anthony W. Addison  
Georgia Arbuckle-Keil  
Matthew Bodek  
Robin S. Davis  
Vince Gale  
Alan Heldon  
Corrie Kuniyoshi  
Kendra Luther  
Marge Matthews  
Victor Tortorelli  
Alan Warren

## CONTENTS

September Advance Notice .....	105
Comments From The Chair .....	107
News Atoms .....	108
Philadelphia Section Election 2017.....	108
September Meeting .....	109
Speaker's Abstract and Biography.....	110
Career Club Notice .....	111
YCC Fall 2017 Events .....	112
Chemical Consultants Network Meeting .....	113
CCN Headshot Photo Opportunity.....	114
National Chemistry Week .....	115
Photos of 50-, 60- and 70-Year Members.....	116
March Board Meeting Minutes.....	117
April Board Meeting Minutes.....	119
May Board Meeting Minutes .....	121
Directory of Services .....	125
2017 Calendar of Events .....	126

Published monthly except July, August and December by the Philadelphia Section of the American Chemical Society. All views expressed are those of the editors and contributors and do not necessarily represent the official position of the Philadelphia Section of the American Chemical Society. Editorial matters should be sent to the attention of the Editor-in-Chief c/o the Philadelphia Section ACS, Department of Chemistry, University of Pennsylvania, 231 South 34<sup>th</sup> Street, Philadelphia, PA 19104-6323 or PhilaACS@gmail.com.

Advertising: Vince Gale, MBO Services, P.O. Box 1150, Marshfield, MA 02050,

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

## **Comments From the Chair**



### **Deborah Cook**

Welcome back! I hope everyone had a wonderful, restful and exciting summer. As an educator, fall always seems a time for new beginnings. The start of an academic year always comes with excitement, fear and trepidation. Over the summer I hope many of you had a chance to attend the ACS National meeting in Washington, DC. I also had an opportunity to meet the chemistry teachers who were engaged in a week-long institute at Bear Creek Lodge in Macungie, PA. The institute for Delaware Valley chemistry teachers was organized by

the American Association of Chemistry Teachers, an ACS organization dedicated to K-12 teachers of chemistry, and funded by Dow. These teachers spent a week sharing their knowledge and understanding by developing materials for other teachers. The group was very enthusiastic and task oriented.

It's hard for me to believe how quickly this year is flying by. It seems like only yesterday I was writing my first Chair's column for 2017. The September meeting features Dr. Dennis M. Gross who will speak on Drug Registration Strategy. Dr. Gross is a professor of pharmacology. Currently he is affiliated with Thomas Jefferson University, and he is the CEO and Treasurer of the Pennsylvania Drug Discovery Institute at the Pennsylvania Biotechnology Institute of Bucks County where we will be meeting. The meeting should be extremely informative, and the venue very interesting. I hope to see many of you there.

Looking ahead to the fall schedule, the October meeting will be held at West Chester University where we will honor the Philadelphia Section Award recipient. The November meeting, as always, is the Ullyot Lectureship held at the Chemical Heritage Foundation. Details for the upcoming meetings can be found in the Calendar of Events on our website and in *the Catalyst*.

Our committees have been active over the summer preparing for other events to be held in 2017. There are a variety of activities and venues organized by YCC, Career Services, WCC, Education and Outreach, and others. I encourage you not only to participate, but also to become active by volunteering to help one of the committees or topical groups.

Finally, in closing, I want to encourage all of you to vote in the upcoming Section election. Ballots and voting directions will be distributed electronically. You may also request a mail-in ballot. Nominations for the Section's officers, directors, and councilors will be on the ballot. The Section depends on you our members to vote.

I am excited about our fall calendar of events and look forward to seeing you at some of the upcoming activities.

## NEWS ATOMS—*Alan Warren*

Chemistry master's degree student **Jordan Doman** of the University of Pennsylvania received a fellowship from the Fannie and John Hertz Foundation for continuing graduate studies in the physical sciences.

**Daniel J. Mindiola**, chemistry professor at Penn was awarded a Guggenheim Foundation fellowship for his further work in the conversion of methane and ethane from shale gas.

### DEATHS

**Luke R. Ocone**, retired research manager, December 11, 2016 at 91. Following Navy service in the Pacific Theater in WWII and completing his education, he joined DuPont where he worked from 1956 to 1959 in the photoproducts department, improving medical x-ray film. He then moved to Pennwalt as a senior chemist to develop thermally stable elastomers. From 1961 to 1971 Ocone managed the central R&D exploratory research group, and then transferred to corporate commercial development, retiring from Pennwalt in 1989.

**Paul R. Garwig**, chemical librarian, February 23, 2017 at 80. He worked at FMC Corporation's R&D center in Princeton. He contributed to symposia of the ACS division of chemical information.

**William J. Ambs**, retired systems engineer, April 8<sup>th</sup> at 87. His career took him to the National Bureau of Standards, Air Products, General Electric, and Lockheed Martin. He was proud of his 1952 paper, which was the first to mention the possibility of a molecule with a knot in it.

**Luke A. Burke, IV**, retired chemistry professor, April 30<sup>th</sup> at 69. He joined the faculty of Rutgers University in Camden and was later named chair of the chemistry department. He retired in 2014.

**Elaine Dorothy Bruchow Orr**, May 10<sup>th</sup> at 72. She was employed as a chemist at the General Electric Space Center. Orr was involved with Historic Yellow Springs and founded its annual art show.

**William D. Vanderwerff**, retired chemist, June 5<sup>th</sup> at 87. He worked for DuPont in the explosives department as quality control chemist, chief chemist, and production supervisor. Following military service and completing his education he joined Sunoco's R&D laboratory where he moved from research chemist to manager of applied research, retiring in 1988.

---

### Philadelphia Section Election 2017

The fall election for Section officers and councilors will be coming soon. It will be electronic using your ACS email address. Therefore, please make sure that your email address is up-to-date with ACS National. Paper ballots will be available on request. Postcards will be sent to those members who do not have a valid ACS national email address with instructions for ordering a paper ballot.

SEPTEMBER MEETING

THE PHILADELPHIA SECTION, AMERICAN CHEMICAL SOCIETY

presents

**Dr. Dennis Gross**  
**CEO and Treasurer, Pennsylvania Drug Discovery Institute**

***The Changing Pipeline***

**Thursday, September 28, 2017**

Pennsylvania Drug Discovery Institute at the  
Pennsylvania Biotechnology Center  
3805 Old Easton Road  
Doylestown, PA 18902

5:15 PM Registration  
6:00 PM Welcome. Dr. Allen Reitz  
6:15 PM Speaker. Dr. Dennis Gross  
7:00 PM Dinner (light fare)

Cost is \$20 for members, \$10 for students

<https://www.eventbrite.com/e/philadelphia-section-ac-s-september-event-tickets-34284030458>

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

Board of Directors Meeting  
4:00 PM – 5:00 PM

## SPEAKER'S ABSTRACT AND BIOGRAPHY

**Dennis M. Gross, MS, PhD**

**CEO and Treasurer**

**Pennsylvania Drug Discovery Institute**

### *A Nano-Course in Drug Registration Strategy*

**Abstract:** As Arthur Clarke, the renowned science fiction author noted many years ago: “The future isn’t what it used to be.” We will look at how the therapeutic landscape has changed in just a few short years. There is a slow but continuing convergence and potential crossover occurring therapeutically for products originating from conventional technology and biotechnology. We will look at the drivers for this sea change and the underlying knowledge basis maturation that is enhancing the new therapeutic approaches as big pharma moves to become big biopharma either by itself or via strategic partnering in order to address the changing therapeutic focus of 21<sup>st</sup> century precision medicine. We will also do a bit of crystal ball gazing and look at how the patent cliff has not only impacted small molecules but also biologics leading to the entrance of biosimilars into the marketplace with their myriad of challenges, not the least of which is acceptance by the medical profession.

**Biography:** Dr. Gross received his BA and MS in Biology from the California State University and his PhD in Cell Biology from the University of California, Los Angeles. He did his post-doctoral training in pharmacology at Tulane University School of Medicine before joining the Merck Research Labs where he worked for 29 years. During his tenure at Merck, he also served as an adjunct faculty in the Jefferson Graduate School of Biomedical Sciences and Associate Professor of Pharmacology in the Department of Pharmacology and Experimental Therapeutics at Thomas Jefferson University. He also served as Adjunct Professor of Global Logistics in the School of Business and Industry of Florida A&M University. After retiring from Merck, he moved full time to Thomas Jefferson University and served for nine years as the Associate Dean for the Jefferson Graduate School of Biomedical Sciences and Associate Professor of Pharmacology in the Department of Pharmacology and Experimental Therapeutics. Dr. Gross is currently the CEO and Treasurer of the Pennsylvania Drug Discovery Institute. He continues as adjunct faculty in the Jefferson College of Biomedical Sciences and the Sydney Kimmel Medical College of Thomas Jefferson University. He is also Professor of Experimental Therapeutics and Medicinal Chemistry in the Blumberg Institute and Adjunct Professor of Basic Sciences at The Geisinger Commonwealth School of Medicine. He has authored more than 120 scientific publications and is a member of the American Association for Pharmaceutical Scientists, American Chemical Society’s Medicinal Chemistry Division, American Heart Association, International Society for Pharmaceutical Engineering, Sigma Xi and the Sino-American Pharmaceutical Professionals Association. He is also the national co-chair of the Biotechnology Entrepreneurship Boot Camp held in conjunction with the yearly International BIO meeting.



## THE ACS PHILADELPHIA SECTION

Presents

### THE CAREER CLUB

Tuesday, September 12, 2017

The Community Center of the Giant Super Food Store

315 York Road

Willow Grove, PA 19090

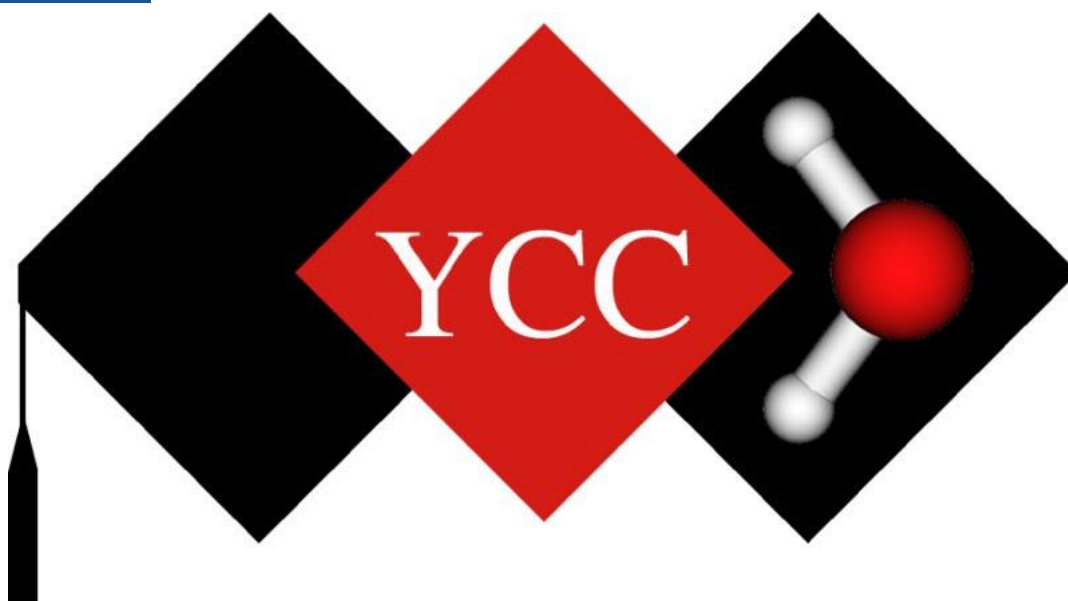
Join us as we offer our members a free opportunity to speak with an ACS Career Consultant. You may have your resume reviewed, go over your interview skills or just brainstorm with an ACS Career Consultant.

Regardless of whether you're a finishing undergraduate or graduate student, an experienced professional, or someone who is in a period of career transition, the ACS Career Consultants at The Career Club are here to help you!

Please note that registration for this event is in the form of one, 30-minute-long appointment. Pick the time that is most convenient for you, and please arrive at the Community Center lounge area 15 minutes before your appointment. Come and take advantage of this opportunity for you to take your career goals and aspirations to the next level!

To register for this free service, please visit <https://acsphillycareerclub9.eventbrite.com>

The Community Center of the Giant Super Food Store is located on York Road (PA 263) in Willow Grove, Pennsylvania. It is readily accessible from I-276, I-476, PA 309, PA 611 and US 1. The Giant also features a dine-in food facility as well as a coffee shop.



## ACS Younger Chemist Committee Events for Fall 2017

September 18, 2017--7 pm

Mollie Mares discusses life as a forensic chemist

*Fox and the Hound, King of Prussia*

Join us for a discussion by Mollie Mares followed by an opportunity to network with fellow younger chemists.

Mollie Mares is a Forensic Chemist at NMS Labs. She has been working there for a little over 2 years. She received her Bachelor of Science in Chemistry with a concentration in forensic science from Elizabethtown College in 2013 and her Master of Science in Forensic Science from Arcadia University in 2015.

October 21, 2017--10 AM-12 PM

Service Project at Cradles to Crayons

*Cradles to Crayons, Conshohocken*

Join us for a service project to benefit children in need in the greater Philadelphia area. Sign up at the Section link and with Cradles to Crayons. Must be 18 years or older to participate.

<https://acsphillycradlestocrayonsevent.eventbrite.com>

Stay tuned for more information on these events

Chemistry demos at Harry Potter Day in Chestnut Hill--Saturday in October

Collaborating Across Boundaries Leadership development Course--Saturday in November

Young Scientific Professionals Mixer

Course on Networking and an opportunity to network with a wide variety of chemistry professionals--November 6<sup>th</sup> at Fox and the Hound in King of Prussia.



## CHEMICAL CONSULTANTS NETWORK SEPTEMBER 13, 2017 MEETING

### **RE-ESTABLISHING COURSE**

**Goutam (Gus) Shahani – Shure-Line Construction**

**DATE & TIME:** Wednesday, Sept. 13<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:** The corporate world can be challenging as business fluctuates with time, and employment reductions must sometimes be made to get the business back on track. This leaves the affected employees in a difficult spot as they try to reestablish themselves and maintain a desired career path. This situation is doubly troubling for mature professionals (> 30 years of experience) who face the added stigma of being viewed as past prime. The presenter faced a lost job situation, and the outcome was very positive. This presentation looks at their experiences as options for mature workers facing this traumatic situation and reestablishing course

**Biography:** Goutam Shahani is Vice President of Sales and Marketing at Shure-Line Construction. Previously, he was Business Development Manager at Linde Engineering North America. Mr. Shahani, with over 30 years of industry experience, specializing in industrial gases for the energy, refining and chemical industries. He holds bachelors and masters degrees in chemical engineering and has an MBA. Mr. Shahani can be reached at GShahani@Shure-Line.com.

**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 (267) 666-0949 and leave a message. Fee, including food and beverages (wine, beer & sodas), is \$30 by reservation/cancellation deadline: **Saturday, Sept. 9<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.

### **CONSULTANTS - OPPORTUNITY HERE!**

**PLEASE VISIT** <http://www.chemconsultants.org/>

#### **Are You Getting the Benefits of CCN Membership or Event Participation?**

THE CHEMICAL CONSULTANTS NETWORK PROVIDES VALUABLE TOOLS FOR MEMBERS BEYOND THE MEETINGS AND NETWORKING. CHECK OUT OUR:

- [Valuable past presentations](#)
- [Consultants' Directory](#) – find consultants who can help you solve your problems & meet your needs
- [Blogs](#) – did you know that chemists can blog? Yes! A broad range of subjects of value to all of us...
- [Resources](#) – useful & helpful stuff!
- [Join!](#) Most valuable – post your consulting practice information – and have great visibility!



**CHEMICAL CONSULTANTS NETWORK  
SEPTEMBER 13, 2017 MEETING  
SPECIAL CONCURRENT EVENT**

**Headshot Photo Opportunity**

Debbie Bowden  
Bowden Photographics

**Date & Time:** Wednesday, September 13, at The Cynwyd Club, Bala Cynwyd, PA  
Photos taken between 5 PM and 9 PM

**Description of Service:** In this world of the internet, faces have become a part of your sales package because they help folks get to know you. You can easily take a photo on your smart phone and paste it into your web page and/or resumes but this is an opportunity to have a professional photographer take a series of photos and do a touch up on one and provide them all to you on a CD. You can decide which one is best for your CCN and LinkedIn pages. A special area will be set up with lighting and backgrounds so you can pose and take full advantage of your handsome features. Debbie provided this service to CCN members 10 years ago and it was a great success then. We trust those who missed it will join us this time. The fee for photography will be \$99. If you have your headshots taken and join us for the regular meeting, the meeting fee will be reduced to \$25 from our normal \$30. You must make a reservation for this event on line or by phone so we can schedule your time with Debbie.

**Biography:** Debbie Bowden has been in the photography industry for the past twenty years. With her experience behind the camera, artistic passion and attention to detail, she creates one of a kind images on a daily basis. Increasing your business visibility through a skillfully done portrait can help make the kind of impact you need to succeed.

For examples of her work go to: <http://www.bowdenphotographics.com>

**Photo Location:** The Cynwyd Club, 332 Trevor Lane, Bala Cynwyd, PA 19004. From I-76, drive S on City Line Ave. (US Rte. 1). Turn right on Conshohocken State Rd. (Rte. 23); stay in right lane. After second light watch for white left-turn arrows painted on street (about 0.14 mile). Do not follow Rte. 23 left at turn but instead go straight ahead onto Llandrillo Rd. (passing to the right of Valley Press printing). After one block bear left onto Trevor Lane at stop sign. Clubhouse and parking are on the left. Please park in lot if space is available; otherwise park on Trevor Lane. If lost, call the club at (610) 667-4524, ext. 312. [MAP](#)

**Photo Reservation:** Please confirm that you will be posing by e-mailing [CCNReservations@aol.com](mailto:CCNReservations@aol.com) or by calling 267-666-0949 and leaving a voice message. If you do join us for our regular meeting and have paid the full \$30 meeting fee on line, \$5 will be refunded when you have your photos taken. Photo reservation deadline is: Saturday, September 9<sup>th</sup>. The \$99 portrait fee is to be paid at time of posing by cash or check.



ACS  
Chemistry for Life®



## 2017 NCW Illustrated Poem Contest CHEMISTRY ROCKS!

The American Chemical Society (ACS) is sponsoring an illustrated poem contest for K-12th grade students.

**Local Section:** Philadelphia

**Contest Deadline:** October 30th (email entries in pdf format / include entry form)

**Prizes:** \$50.00 for each grade category (K-2, 3-5, 6-8, and 9-12)

**Contact:** Dr. Bill Smith (willsmith2@aol.com) email for a digital entry form ASAP.

Winners of the ACS Local Section Illustrated Poem Contest will advance to the National Illustrated Poem Contest for a chance to be featured on the ACS website and to win \$300 or \$150 in cash prizes!

### INSTRUCTIONS

Write and illustrate a poem using the NCW theme, "Chemistry Rocks!"

Your poem must be no more than 40 words and in the following styles to be considered:

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

Possible topics include rocks, minerals, gemstones, salts, crystals, magma, mantle, sediment, stalactites, and stalagmites. Entries will be judged based upon relevance to and incorporation of the theme, word choice and imagery, and colorful, creative artwork

### 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 2017 theme.
- 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 enter 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.

[www.acs.org/NCW](http://www.acs.org/NCW)



## 50-, 60- and 70-YEAR MEMBER PHOTOS



50-year member picture. Top row left to right: Alfred (Bud) Norris, Bruce Maryanoff, Carol Jean Bruner, George Preti, Tom Connelly. Bottom row left to right: Joseph M. Bohen, Deborah Cook, John R. Williams.



60- and 70-year member picture. Top row left to right: Deborah Cook, Norman Schwartz, Madeleine Joullié, Bill Golton, Tom Connelly. Bottom Row left to right Ed Thornton, unknown, Norman Vorchheimer, unknown.

688<sup>th</sup> BOARD OF DIRECTORS MEETING  
March 23, 2017  
Chem. Dept., University of Pennsylvania, Philadelphia, PA

Present: Michael Castaldi, David Cichowicz, Melissa Cichowicz Deborah Cook, Jason Cross, Ella Davis, Anne DeMasi, Rick Ewing, Alan Heldon, Kathy Lysko, Joseph A. Martino, Christie McInnis, Craig McClure, Kathleen Thrush Shaginaw, Elizabeth Wagoner

Absent: Judith Cohen, JP Northrop, Judy Summers-Gates, James Tarver, Victor J. Tortorelli

Also present: CJ Bruner, Judith Currano

The 688<sup>th</sup> Board Meeting of the Philadelphia Section, ACS, was called to order at 4:06 PM. A quorum was present.

The Minutes of the February 2017 Board of Directors Meetings were approved with 0 nays and 0 abstentions.

1. Officers

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

i The Chair nominated Liliana Suarez to be the new Chair of the Communications Committee. The nomination was approved by the Board by a unanimous vote.

ii The Chair recapitulated the relevant points of the recent Communications Committee meeting.

- Marge Matthews has agreed to remain in an advisory capacity.
- Liliana Suarez will manage *the Catalyst*.
- Vic Tortorelli will manage the Section's Calendar.
- Robin Davis will continue as the editor of *the Catalyst*.
- The need for a single "point of contact" for *Catalyst* submissions was discussed. There has not been an official "point of contact" for *Catalyst* submissions since Libby Harper retired. It was decided that the Office Administrator would serve as "point of contact" for *Catalyst* material.

iii The Section Administrator - Krista Leary – will be leaving employment at the University of Pennsylvania soon but will be available for Section work through May. Options for her replacement are being considered.

iv The 50-60-70 Year Member Lunch will be at the Union League, on Broad Street in Philadelphia.

Date: June 22<sup>nd</sup> (4<sup>th</sup> Thursday)

Time: 11:30 arrival and reception, 12:00 lunch, 1:00 program.

Cost: \$36.00+/person plus tax and gratuities, etc. \$45.00/person.

B. Chair-Elect, Elizabeth Wagoner, [ewagoner22@gmail.com](mailto:ewagoner22@gmail.com)

Awards Committee: The nominee for the Undergraduate Teaching Award is Scott Van Bramer (Widener University), and the nominee for the Pre-College Teaching Award is Delores Wright (Chester High School). The nominations were approved with 0 nays and 0 abstentions.

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

No report.

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

Absent, no report submitted.

E. Past-Chair, Rick Ewing, [ewingwre@comcast.net](mailto:ewingwre@comcast.net)

Work is proceeding on the slate for the Section election. Prospective candidates should declare their candidacy promptly. Hopefully, the slate will be submitted to the Board in May.

2. Committees

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

1) The multi-section career event with the ACS Princeton Section will take place on Thursday, May 11<sup>th</sup> from 5:30 PM to 10:00 PM at Bowen Hall on the campus of Princeton University. The format will include a moderated panel discussion and question and answer session with a dinner provided. A charge of \$25 will be issued for the event to subsidize food for those planning to attend the dinner. Those planning to attend the panel discussion only can attend for free. Panelists include:

- \* JP Northrop (Edward Jones Investments)
- \* Kevin Cannon (Penn State Abington)
- \* Mukund Chorghade (THINQ Pharma)
- \* Molly Hoke (Mallinckrodt Pharmaceuticals)
- \* Paul Winslow (Students 2 Science)

More details on the panelists will be forthcoming, and the panel will have representation from the membership of the ACS Philadelphia Section. Career Services is partially subsidizing this event from the Career Services' budget, and the ACS Princeton and Philadelphia Sections have applied for an ACS Corporation Associates Local Section Grant to further fund the event.

2) Career Services is providing support for resume reviews for the Philly YCC Poster Session on March 27 at the University of the Sciences in Philadelphia, PA.

3) The Career Club will resume after the May 11<sup>th</sup> multi-section career event with the ACS Princeton Section.

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

Bill Smith submitted the following report electronically:

Event and Task	Status
CHEMAGINATION	<p>Section level competition underway March 15-April 10</p> <p>214 high schools invited to participate</p> <p>Students write article for <i>ChemMatters</i>, an ACS high school magazine. The article is set in the year 2042 and is to report on the outcome of an important discovery in 2017.</p> <p>Section winners will proceed to MARM level competition at the Hershey Lodge, Hershey, PA on June 4</p> <p>Bill Smith is project coordinator</p>
Chemists Celebrate Earth Day	<p>"Chemistry Helps Feed the World."</p> <p>Section level illustrated poster competition April 10-24</p> <p>Section winners proceed to National</p> <p>National has sent booklets for distribution to PAGES</p> <p>Bill Smith is project coordinator</p>
National Chemistry Olympiad	<p>High school level exams held in mid-March</p> <p>Section level exam at LaSalle University on April 22<sup>nd</sup></p> <p>Craig McClure and Laura Grande are project coordinators</p>
Philadelphia Science Carnival	<p>Penn's Landing, Saturday, April 29, 10:00 AM - 4:00 PM</p> <p><i>The Art of Shaving Cream Chemistry</i></p> <p>James Brooks and Thomas Umile are project coordinators</p>
Project SEED	<p>One current venue – Solvay in Bristol</p> <p>Two students being considered for summer 2017</p> <p>Working with National to expand the number of venues</p>

Other Business

- A. Younger Chemists Committee, Christine McInnis, [mcinnis@gmail.com](mailto:mcinnis@gmail.com)

- The Poster Session, University of the Sciences, is next Monday.
- The Philadelphia Science Carnival will be April 29 at Penn's Landing

B. Government Affairs Committee, Alan Heldon, Chair, [alan.heldon@live.com](mailto:alan.heldon@live.com)

The April 22<sup>nd</sup> March for Science, was discussed and the Board declined to endorse the enumerated March for Science issues that were cited by ACS National in its endorsement of the March. A motion was made and seconded to publicize, in Section media, a meeting location for ACS members and other chemical professionals participating in the March for Science in Philadelphia. The voice vote was ambiguous. A roll call vote was requested. A motion for a roll call vote was made, seconded and passed with 0 nays and 0 abstentions. The roll call vote was:

Castaldi, No; M. Cichowicz, No; Cook, No; Cross, Yes; Davis, Yes; DeMasi, No; Heldon, Yes; Lysko, No; Martino, No; McInnis, No; McClure, Yes; Shaginaw, No; Wagoner, Yes.

C. A motion was made, seconded and passed that, to facilitate Section business, a Section Debit Card was authorized for CJ Bruner. 0 nays and 0 abstentions.

D. Kathy Shaginaw advised that PAGES™ would go on April 22<sup>nd</sup> at Chestnut Hill College.

There being no additional business before the Board, the meeting was adjourned at 5:15 PM.

Respectfully submitted,

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

---

## 689<sup>th</sup> BOARD OF DIRECTORS MEETING

April 20, 2017

McCall Conference Center, Upper Darby, PA

Present: Michael Castaldi, David Cichowicz, Melissa Cichowicz, Deborah Cook, Alan Heldon, Joseph A. Martino, Christie McInnis, Kathleen Thrush Shaginaw, Elizabeth Wagoner

Absent: Judith Cohen, JP Northrop, Judy Summers-Gates, Craig McClure, James Tarver, Victor J. Tortorelli

Excused: Jason Cross, Ella Davis, Anne DeMasi, Rick Ewing, Kathy Lysko

Also present: CJ Bruner

The 689<sup>th</sup> Board Meeting of the Philadelphia Section, ACS, was called to order at 4:12 PM. A quorum was not present.

A quorum not being present, the Minutes of the March 2017 Board of Directors Meetings were not submitted.

### 1. Officers

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

- i The 50-60-70 Year Member Lunch (June Meeting) still needs a speaker.
- ii The Section Administrator - Krista Leary – will be leaving U. Penn on May 5<sup>th</sup> but will remain, temporarily, available for Section work. The Section is looking for a replacement at U. Penn. No prospects yet.

B. Chair-Elect. Elizabeth Wagoner, [ewagoner22@gmail.com](mailto:ewagoner22@gmail.com)

- i The Teacher Awards winners (May Meeting) are currently being notified.
- ii The Philadelphia Section Award is in progress. No nominations for the award have been received so far, this year. There are 5 “roll over” nominations from last year.

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

No report.



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

Not yet arrived. See hereinafter.

## 2. Committees

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

### 1. ACS 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.

### 2. Career Services Committee Report Summary:

- To remind the Committee, the multi-section career panel discussion for displaced workers, which will be co-hosted by Career Services and the ACS Princeton Section, will take place on May 11, 2017 in Bowen Hall from 5:30 PM to 10:00 PM at Princeton University. We are currently waiting for the status of the ACS Corporation Associates Local Section Grant to assist in subsidizing the event. Quotations for food have been placed and are currently being negotiated. Deb Cook will be making remarks at the event on behalf of the ACS Philadelphia Section.
- Career Services, through Joe Martino, provided support to the Philly Younger Chemists Committee (YCC) Poster Session on March 27th at the University of the Sciences in Philadelphia, PA. Three participants of the poster session solicited for resume reviews. Career Services and YCC will examine ways to better improve communicating the presence of ACS Career Consultants for future YCC events should the services of ACS Career Consultants be utilized.
- Joe Martino will be participating in some capacity at the ACS MARM meeting to be held in Hershey, Pennsylvania, from June 4th through June 6th in his role as an ACS Career Consultant and Presenter for the ACS Career Pathways series of workshops. Joe's exact duties at MARM are to be determined and assigned by ACS National. These assignments supersede any collaboration that has been previously negotiated by Joe with ACS Career Consultant Bill Suits regarding MARM. Therefore, a workshop for networking exclusively for the ACS Philadelphia Section is returned to the table for discussion at next month's teleconference.
- Joe Martino intends to schedule a date for the Career Club at The Community Center of the Giant Super Food Store in Willow Grove, PA, as his schedule permits, targeting Fall of 2017.
- The Section Board has recently appointed Liliana Suarez as the new Communications Chair of the Section. Career Services will support Liliana in her new role with the Section, and Joe Martino intends to discuss our publicity needs with Liliana once she acclimates to this new role. Career Services would like to acknowledge and thank Marge Matthews for the work that she has done as Communications Chair of the Section and for her support of the work that we do as a Committee.

B. Women in Chemistry Committee, PAGES™, Kathy Shaginaw

PAGES™ is ready for April 22<sup>nd</sup> (Saturday) at Chestnut Hill College with 44 volunteers and 93 girls expected to attend.

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

Event and Task

Status

CHEMAGINATION

Section level competition March 15-April 10

214 high schools invited to participate

Received 29 entries (up from only 1 entry in 2016)

Students write article for *ChemMatters*, an ACS high school magazine.

The article is set in the year 2042 and is to report on the outcome of an important discovery in 2017.

Section winners will proceed to MARM level competition at the Hershey Lodge, Hershey, PA on June 4

Bill Smith is project coordinator

Chemists Celebrate Earth Day

"Chemistry Helps Feed the World."

Section level illustrated poster competition April 10-24

Section winners proceed to National

National has sent booklets for distribution to PAGES

Bill Smith is project coordinator

National Chemistry Olympiad

High school level exams held in mid-March  
Section level exam at LaSalle University on April 22<sup>nd</sup>

Craig McClure and Laura Grande are project coordinators

Philadelphia Science Carnival

Penn's Landing, Saturday, April 29, 10:00 am - 4:00 pm  
*The Art of Shaving Cream Chemistry*

James Brooks and Thomas Umile are project coordinators

Project SEED

One current venue – Solvay in Bristol  
One student hired for summer 2017

Lee Hoffman and Deborah Walsh are project coordinators and plan a  
teleconference to work on expanding the number of venues

D. Younger Chemists Committee, Christine McInnis, [mcinnis@gmail.com](mailto:mcinnis@gmail.com)

- The Poster Session, University of the Sciences, went very well.
- A social event for Philadelphia chemists is scheduled for the end of May.

E. Senior Chemists Committee leadership was discussed. A \$500 grant is available.

Officers Reports continued from hereinabove -

Treasurers Report, David Cichowicz, [cichowicz@lasalle.edu](mailto:cichowicz@lasalle.edu)

The Section's dues allotment has been received from ACS National.

There being no additional business before the Board, the meeting was adjourned at 4:39 PM.

Respectfully submitted,

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

---

690<sup>th</sup> BOARD OF DIRECTORS MEETING

May 18, 2017

University of the Sciences, Philadelphia, PA

Present: Michael Castaldi, David Cichowicz, Melissa Cichowicz, Deborah Cook, Jason Cross, Ella Davis, Anne DeMasi, Alan Heldon, Kathie Lysko, Joseph A. Martino, Christie McInnis, Craig McClure, JP Northrop, Kathleen Thrush Shaginaw, Judy Summers-Gates, Elizabeth Wagoner.

Absent: Judith Cohen and James Tarver

Excused: Rick Ewing and Victor J. Tortorelli

Also present: CJ Bruner

The 690<sup>th</sup> Board Meeting of the Philadelphia Section, ACS, was called to order at 4:13 PM. A quorum was present.

*Secretary's Note: The Communications Committee Report was accepted by Board at the beginning of the meeting and is recorded hereinafter under Committees.*

The Minutes of the March and April 2017 Board of Directors Meetings were submitted to the Board. On motion, the March Minutes were approved as amended. 0 nays. 0 abstentions. On motion, the April Minutes were approved as submitted. 0 nays, 0 abstentions.

## 1. Officers

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

- This evening's awards program which will follow this Board meeting is ready to go.
- The 50-60-70 Year Member Lunch Meeting will be June 22<sup>nd</sup>. The Board Meeting will follow the lunch, beginning 2:30-3:00.
- The September Meeting will be in Doylestown at the Biotech Center.
- The October Meeting will be the Section Award.
- The November Meeting, at Chemical Heritage Foundation, is the Ulliot lecture.
- The December Meeting will precede the Section's holiday gathering.
- Executive Committee Meeting is May 24<sup>th</sup>, Willow Grove, PA, to consider Office Administrator position.
- Discussion of continuing reimbursement of Section Administrator.
- Education Summit under Dow grant. Section Board of Directors are invited. Bear Creek Lodge, Doe Mt., Allentown, PA.

B. Chair-Elect, Elizabeth Wagoner, [ewagoner22@gmail.com](mailto:ewagoner22@gmail.com)

The Philadelphia Section Award nominations are in progress. No nominations for the award have been received this year but there are 4 "roll over" nominations from last year. The names will be submitted shortly to the Board for e-voting.

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

No report.

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

The Section's current account balance is adequate to the Section's needs.

The matter of raising the Section dues was discussed and tabled for consideration at the Executive Committee Meeting.

## 2. Committees

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

1) The May 11th Career Panel Discussion for Non-Traditional Chemistry Careers in Bowen Hall at Princeton University was successful, with 29 participants, making this the second-most successful workshop since the 2011 workshop held at Chestnut Hill College in Philadelphia, PA with 50-plus participants. Career Services thanks the panelists: JP Northrop (Edward Jones Investments), Kevin Cannon (Penn State Abington), Mukund Chorghade (THINQ Pharma), Molly Hoke (Mallinckrodt Pharmaceuticals) and Allen Jones (Students 2 Science). Joe Martino and Lori Spangler of Career Services would also like to thank George Theodoridis, Khalid Mahmood, Louise Lawter and Allen Jones of the ACS Princeton Section for their support on this event, and George Theodoridis and Deb Cook for their remarks as chairs of the ACS Princeton and Philadelphia Sections, respectively. Finally, we are grateful to ACS Corporation Associates for a Local Section Grant of \$1,000.00 to help fund this event, which was co-sponsored by the ACS Philadelphia and Princeton Sections.

2) By way of reminder, Career Services has reserved Tuesday September 12th, 2017 from 4:00 PM to 9:00 PM at the Community Center of the Giant Super Food Store in Willow Grove, PA, for the return of the Career Club. An appointment style format using multiple ACS Career Consultants and the use of two of the Community Center's smaller rooms will be tested. Career Services will discuss the logistics of this event.

3) Joe Martino will be presenting the "Finding Your Path" ACS Career Pathways workshop and performing resume reviews for MARM in Hershey, Pennsylvania on June 5th.

4) Career Services will discuss the feasibility of a Fall Career Event, with content to be determined, with an emphasis on networking.

B. *Secretary's Note: The Communications Committee report presented at the beginning of the meeting is recorded here.* Communications Committee, Liliana Suarez, [liliana.y.suarez@gmail.com](mailto:liliana.y.suarez@gmail.com)

Liliana, the new Communications Committee Chair, introduced herself to the Board.

Discussion of short term Communications Comm. goals, and need for a committee meeting in the near future.

Chair thanked Liliana for accepting office of Communications Committee Chair, stressing the growing importance of social media.

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

Report submitted electronically:

1. CHEMAGINATION Contest period March 15-April 10

Student contestants wrote an article for ChemMatters, an ACS high school magazine. The article was to be set in the year 2042 and reported on the outcome of an important discovery in 2017.

We received 29 entries involving 59 students in teams of 2-3. Each student received a certificate from the Section. Certificate recipients were:

- Section First Place (\$100 dollar prize for each student), Alice Desroches and James Smith, Pennsbury High School "Gravene: A Wonder Material"
- Section Second Place (\$50 dollar prize for each student), Rachel Huang and Kayla Neary, The Agnes Irwin School "Say Freeze! Cryogenics: It's No Longer Wishful Thinking"
- Section Honorable Mention, Dorkhan Chang and Justin Huang, Conestoga High School "Nuclear Fusion: The Energy of Today"
- Section Honorable Mention, Julia King and Dunya Markovic, Conestoga High School "Plastic Bags: A Dissolvable Problem"

These four teams will proceed to MARM level competition at the Hershey Lodge, Hershey, PA on June 4.

Project Coordinator: Bill Smith

Judges: Christine Coccozza, Lindsay Davis, Steve Fleming, Michelle Francl, Alan Heldon, Craig McClure, Jean Mihelcic, and Tova Samuels,

2. Chemists Celebrate Earth Day "Chemistry Helps Feed the World."

Section level illustrated poster competition April 10-24

- First Place Grades K-2, Delilah Donato, Parkside Elementary School, Parkside, PA
- First Place Grades 3-5, Natalie Horan, Ashton Elementary School, Ashton, PA
- First Place Grades 6-8, Ryan Theile, Devon Preparatory School, Devon, PA
- First Place Grades 9-12, Sarah Tse, Central High School, Philadelphia, PA

Philadelphia Section winners received a check for \$50 and their entries are submitted to National for consideration in the National level competition. (Results pending).

61 entries received. Each student entrant received a certificate from the Section (Either First Place or Honorable Mention).

National has sent booklets for distribution to PAGES™

Project Coordinator: Bill Smith

Judges: Lindsay Davis, Steve Fleming, Laura Grande, Craig McClure, Jean Mihelcic, Tova Samuels, and Kathy Thrush Shaginaw

3. National Chemistry Olympiad

567 high school students from 29 schools participated in the Philadelphia Section Olympiad exams held at the individual participating schools in mid-March 2017. Schools mailed in completed exams.

The results of the Section-level exam were sent back to each school. Also sent were statistics on each individual school as well as statistics on all participants in the Section. Teachers can use these statistics to see how well their students did relative to others. Finally, each teacher received a survey regarding their experience with the Olympiad this year. Survey results will be used to make changes next year to improve the program, if needed.

The National Exam was held on Saturday, April 22 at LaSalle University, with 20 students participating. The National exam consisted of a multiple-choice portion, a short answer portion, and a laboratory practical. The results from that exam were sent to the ACS office in Washington, DC to be scored.

The Coordinators are now waiting for the results to be announced, and will print and send certificates and pins to those students who participated in the National Exam, along with released results from the National Office, and copies of their exam booklets. We will meet this Spring to start working on some early planning for next year in terms of timelines to follow, work up a budget for next year, and start working on a summary report.

Project Coordinators: Craig McClure and Laura Grande

4. Philadelphia Science Carnival, "The Art of Shaving Cream Chemistry"

Penn's Landing, Saturday, April 29, 10:00 AM - 4:00 PM

Volunteers helped approximately 420 attendees learn "The Art of Shaving Cream Chemistry"

Project Coordinators: James Brooks and Thomas Umile

Volunteers: Bria Gillard, Doug Gisewhite, Craig Gonzaga, Owen Hart, Casey Leech, Ivona Sasimovich, and Julia Tasca

5. Project SEED, Only one current venue - Solvay in Bristol

Kristen Gilmore, Bristol High School, hired for summer 2017 by Solvay.

Lee Hoffman and Bill Smith conducted a telephone meeting on 4-24 to discuss an action plan for increasing the number of Project SEED venues in the Philadelphia Section. Lee is writing to Cecilia Hernandez at National. The goal is to prepare an introduction to the program for universities and for industry that will enable them to be comfortable committing to the program and enable the Section to provide the needed support.

Project Coordinator: Lee Hoffman

D. Younger Chemists Committee, Christine McInnis, [mcinnis@gmail.com](mailto:mcinnis@gmail.com)

The YCC's next event will be May 31<sup>st</sup>, downtown Philadelphia. A mixed social and business meeting.

4. Other Business

A letter of resignation to the Board of Directors of the Philadelphia Section was presented, in person, by Director JP Northrop. Said resignation to be effective immediately. The resignation was accepted, with regret, by the Board.

There being no additional business before the Board, the meeting, on motion, was adjourned at 4:50 PM.

Respectfully submitted,

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

# DIRECTORY OF SERVICES

## CAREER DEVELOPMENT

Being a part of one of our teams can help you develop organizational and meeting skills as well as help you to network with people from the largest area companies. Public Relations, such as sending out meeting notices and press releases, can help you to develop a network and help you get noticed!

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](http://www.membership.acs.org/p/philadelphia)

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

## Custom Synthesis of Chemicals

Gram to Commercial Production  
On-time Delivery, Quality & Competitive Price

**Tyger Scientific Inc.**

324 Stokes Ave. Ewing, NJ 08638

Phone: 888-329-8990

Email: [sales@tygersci.com](mailto:sales@tygersci.com)

## SURPRISE

our editor by calling and saying you appreciate the quality and content of our newsletter. Our editor works hard to maintain a publication of interest to our membership. Oh, and by the way you could also give credit to our advertisers who financially support us.

## NMRService 500MHz

\*Mass

\*Elemental Analysis

**NuMega Resonance Labs**

[numegalabs.com](http://numegalabs.com) P- 858-793-6057

## SEARCHING FOR THAT SPECIAL JOB?

There are many companies and organizations searching for chemical and biochemical personnel to fill important jobs in their organizations.

- Companies for laboratory and management positions
- Universities & Colleges for teaching positions and laboratory personnel
- Hospitals for technical and research personnel

There are several web sites that may help you search for these open positions.

- [www.mboservices.net](http://www.mboservices.net)
- <http://membership.acs.org/p/philadelphia/jobs/>



## Micron Analytical Services

**COMPLETE MATERIALS CHARACTERIZATION  
MORPHOLOGY CHEMISTRY STRUCTURE**

SEM/EDXA • EPA/WDXA • XRD XRF • ESCA • AUGER • FTIR • DSC/TGA

Registered with FDA • DEA GMP/GLP Compliant

3815 Lancaster Pike Wilmington DE. 19805

E-Mail [micronanalytical@compuserve.com](mailto:micronanalytical@compuserve.com)

Voice 302-998-1184, Fax 302-998-1836

Web Page: [www.micronanalytical.com](http://www.micronanalytical.com)



## Robertson Microlit Laboratories

*Where speed and accuracy are elemental*

Elemental CHN, S, X, Analysis (same day service)

Metals by ICP-OES, ICP-MS, A/A

FTIR, UV/VIS Spectroscopy

Ion Chromatography

GC-MS

Polarimetry

DSC, TGA, melting point

KF Aquametry, Titrmetry

1705 U.S. Highway 46 • Suite 1D • Ledgewood, NJ 07852 • 973.966.6668 • F 973.966.0136

[www.robertson-microlit.com](http://www.robertson-microlit.com) • email: [results@robertson-microlit.com](mailto:results@robertson-microlit.com)

**Rapid Results • Quality • Accuracy • Competitive Pricing**

## ADVERTISING INDEX

ACS	124
Micron Inc.	124
NuMega Resonance Labs, Inc.	124
Robertson Microlit Labs	124
Tyger Scientific, Inc.	124

Advertising: Vince Gale, MBO Services, P.O. Box 1150, Marshfield, MA 02050; phone: (781) 837-0424

email: [vincegale@mboservices.net](mailto:vincegale@mboservices.net)



## PHILADELPHIA SECTION, ACS CURRENT CALENDAR OF ACTIVITIES

Date and Time	Event	Location/Information
Monday, September 11 6 PM informal dinner 7 PM talk	Delaware Valley Mass Spectrometry Discussion Group September Meeting, Dr. Catherine Fenselau, University of Maryland; <i>Progress in Top-down Analysis of Branched Proteins: Conjugated Ubiquitin and Polyubiquitins</i>	154 Mendel Hall, Villanova University, Villanova, PA. Please RSVP by email to Xi Qiu at XQiu2@ITS.JNJ.com by 9/7/17 at 5 PM for a dinner headcount. Additional information is available at <a href="http://www.dvmsdg.org">www.dvmsdg.org</a>
Tuesday, September 12 7:30 AM – 3:30 PM	Innovation Day	Chemical Heritage Foundation 315 Chestnut Street Philadelphia, PA 19106 <a href="https://www.chemheritage.org/innovation-day-2017#Schedule">https://www.chemheritage.org/innovation-day-2017#Schedule</a>
Tuesday, September 12 3 PM – 8 PM	New Jersey Mass Spectrometry Discussion Group Annual Vendor Night, Meeting and Poster Session	Holiday Inn Somerset-Bridgewater 195 Davison Avenue Somerset, NJ 08873 <a href="http://www.njacs.org/events-calendar/sep-12-2017-msdg-symposium-vendor-show">http://www.njacs.org/events-calendar/sep-12-2017-msdg-symposium-vendor-show</a>
Tuesday, September 12 Various 30-minute appointments	ACS Philadelphia Section Career Club	The Community Center of the Giant Super Food Store 315 York Road Willow Grove, PA 19090 To register for this free service, please visit <a href="https://www.eventbrite.com/e/acs-philadelphia-section-career-club-tickets-35536470540">https://www.eventbrite.com/e/acs-philadelphia-section-career-club-tickets-35536470540</a>
Wednesday, September 13 5:30 PM networking 6:30 PM dinner 7:30 PM talk	Chemical Consultants Network Meeting “Gus” Shahani, Shure-Line Construction, <i>Re-establishing Course</i>	The Cynwyd Club 332 Trevor Lane Bala Cynwyd, PA 19004 <a href="http://www.chemconsultants.org/event-2508630">http://www.chemconsultants.org/event-2508630</a>
Wednesday, September 20 1:30 PM – 4:30 PM	ChemPharma New Jersey Chapter Meeting, Brad Schweon, <i>Working with Recruiters &amp; Job Search Tips</i>	Morris County Library 30 East Hanover Avenue Whippany, NJ 07981 <a href="http://www.chempharma.net/content.aspx?page_id=87&amp;club_id=668134&amp;item_id=675183">http://www.chempharma.net/content.aspx?page_id=87&amp;club_id=668134&amp;item_id=675183</a>
Wednesday, September 20 12:30 PM – 6 PM	North Jersey Chromatography Group: <i>Recent Advances in Chromatography for the Analysis of Pharmaceuticals</i>	DoubleTree Hotel 200 Atrium Drive Somerset, New Jersey <a href="http://www.njcrg.org/meetings">http://www.njcrg.org/meetings</a>
Tuesday, September 26 4 PM – 8 PM	Laboratory Robotics Information Group Annual Vendor Exhibition	DoubleTree by Hilton Philadelphia-Valley Forge 301 West DeKalb Pike King of Prussia, PA 19406 <a href="http://www.lrig.org/a/lrig.org/lrig/chapters/philadelphia/Events-PHL/phillysannualvendorshowseptember2017">http://www.lrig.org/a/lrig.org/lrig/chapters/philadelphia/Events-PHL/phillysannualvendorshowseptember2017</a>
Thursday, September 28 5 PM - 8 PM	Philadelphia ACS Section Monthly Event: Tour of the PA Biotechnology Center	Pennsylvania Drug Discovery Institute at the Pennsylvania Biotechnology Institute 3805 Old Easton Rd Doylestown, PA 18902 <a href="https://www.eventbrite.com/e/philadelphia-section-acis-september-event-tickets-34284030458">https://www.eventbrite.com/e/philadelphia-section-acis-september-event-tickets-34284030458</a>
Thursday, October 19	Philadelphia ACS Section Monthly Event: Philadelphia Section Award, Dr. Kurt W. Kolasinski	West Chester University West Chester, PA See October issue of <i>the Catalyst</i> for details
Thursday, November	Philadelphia ACS Section Monthly Event: Ulyot Lecture, Marcia McNutt, president of the National Academy of Sciences and former editor in chief of <i>Science</i>	Chemical Heritage Foundation 315 Chestnut Street Philadelphia, PA 19106 <a href="https://www.chemheritage.org/event/ullyot-lecture-marcia-mcnutt">https://www.chemheritage.org/event/ullyot-lecture-marcia-mcnutt</a>
Please check the individual websites for additional updated information		