

# the Catalyst



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April 2018  
Volume 103, No. 4



**April Meeting**  
**Dr. Lawrence J. DeLucas**  
**Director at the Center for Structural Biology**  
**and Center for Biophysical Sciences**  
**and Engineering**

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## ADVANCE NOTICE

**MAY MEETING**  
**Thursday, May 17, 2018**  
**5:00-10:00 PM**

Excellence in Teaching Awards  
Speaker: Dr. Andy Jorgensen  
Professor Emeritus of Chemistry University of Toledo  
*Global Climate Disruption: How Do We Know? What Can We Do?*

Location: TBD

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

# *the Catalyst*

ACS Philadelphia Section

Founded May 15, 1899

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## ***Comments From the Chair***



***Lizzy Wagoner***

Spring is just around the corner and with it comes several exciting ACS Philadelphia Section Events! The annual YCC poster session is being held on April 10<sup>th</sup> at Temple University in the Science and Education Research Center. This event will host a wide variety of talented scientists from high school, undergraduate, graduate and post-doctoral programs. Judges will collaborate to name 1<sup>st</sup> through 3<sup>rd</sup> place winners for each educational bracket. Concurrent with the poster session will be a graduate school and career fair. For more information on this event, please visit <https://phillyycc.org/poster-session>.

Also in April, will be the presentation of Scholastic Achievement Awards. During this event on April 19<sup>th</sup>, we will be recognizing accomplished chemistry and chemical engineering students from the approximately 27 four-year colleges and universities in the Philadelphia area. We will also be recognizing the winners of the YCC poster session and impactful volunteers to the Philadelphia Section. Our speaker will be Dr. Lawrence J. DeLucas who will be speaking about how to expect the unexpected as one progresses through their career in the scientific industry. He has had a unique career path that included working with NASA performing experiments on the US Space Shuttle and as an astronaut on the Columbia Space Shuttle. In addition to learning about Dr. DeLucas' career, we will hear about the future career aspirations of our Student Scholastic Achievement Awardees.

Chemists Celebrate Earth Week (CCEW) will be from April 22<sup>nd</sup> to April 28<sup>th</sup>. This is a week sponsored by ACS National and has the theme of "Dive into Marine Chemistry" (<https://www.acs.org/content/acs/en/education/outreach/ccew.html>). Some of the activities associated with CCEW are an Illustrated Poem Contest for K-12 students and a suggested Community event inviting you to learn more about seafood in your area.

On April 7<sup>th</sup> our Women Chemists Committee will host a full day of activities with the Philadelphia Area Girls Enjoying Science™ (PAGES™), an interactive, hands-on chemistry program for 6<sup>th</sup> grade girls (<https://pagesprogram.org/>). The goals of PAGES™ is to increase young women's interest in STEM, to provide them with the opportunity to meet women working in the sciences, and to foster awareness of future career possibilities.

From April 20-28<sup>th</sup>, the Philadelphia Science Festival will return organized and led by The Franklin Institute, in collaboration with 200 of the Philadelphia region's premier science and educational establishments (<https://www.fi.edu/psf>). This citywide event affords many opportunities for people of all ages to get out and learn more about science. April is an exciting month and I hope you are inspired to participate and get involved!

## NEWS ATOMS—*Alan Warren*

### DEATHS

**Henry Robinson Ertelt**, patent agent, was a 60-year member of ACS, in 2008. No further details available.

**Paul Adolph Fertell**, founder of Wilmington Chemical Corporation, July 21, 2017 at 87. He established the firm in 1956, specializing in solvent-borne and water-borne polyurethanes. Later he developed a family of diglycidyl ethers. After 40 years with Seton Company he retired in 1992 as president and COO.

**Carl Pfeiffer**, retired chemical engineer, November 7, 2017 at 92. He was a chemical engineer with Sunoco.

**Frank Hartranft Reichel, Jr.**, retired chemist and chemical industry executive, February 3, 2018 at 89. He was a chemist with Mound Laboratories and then served as director of research for Ketchikan Pulp Company in Alaska. He then joined FMC Corporation, working from 1963 to 1965, when he was named president and chairman of the board of American Viscose. In 1976 he became CEO, retiring in 1980. He also served on the board of managers of the Franklin Institute.

**Joseph N. Bartlett, Jr.**, chemist and high school teacher, February 20<sup>th</sup> at 83. He was employed as a research and technical service chemist for five years at Gulf Oil. He was a chemist for Terra Vac, Inc. and worked on a Superfund site. In 1960 he joined Bucks County Technical High School where he taught chemical and environmental technology for about 25 years.

He then joined Lincoln High School in Philadelphia as lead instructor for environmental technology, retiring after 16 years in 2000. From 1996 through 2005 Bartlett served on Upper Merion township's environmental advisory council and also on the township's board of supervisors.

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Philadelphia Section of the American Chemical Society

Board of Directors Teleconference Meeting

**Thursday, April 12**

**5:00 – 7:00 PM**

Additional information about this meeting will be available on the website.

<https://global.gotomeeting.com/join/187081973>

## **APRIL MEETING**

THE PHILADELPHIA SECTION, AMERICAN CHEMICAL SOCIETY

presents the

### **2018 Undergraduate Scholastic Achievement Awards**

and

#### **Dr. Lawrence J. DeLucas**

Director at the Center for Structural Biology  
and Center for Biophysical Sciences and Engineering  
University of Alabama at Birmingham

*A Career in Science: Expect the Unexpected*

**Thursday, April 19, 2018**

McCall Meeting and Conference Center  
201 North Lynn Boulevard  
Upper Darby, PA 19082

5:30-6:00 PM Registration/Reception  
6:00-7:00 PM Speaker  
7:00-7:45 PM Dinner  
7:45-8:15 PM Awards

Dinner cost: \$36; Students with reservations and ID: \$18

Register at:

<https://www.eventbrite.com/e/philadelphia-section-ac-s-april-event-tickets-44195039553>

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

## SPEAKER'S ABSTRACT AND BIOGRAPHY

**Dr. Lawrence J. DeLucas**

**Director at the Center for Structural Biology and Center for Biophysical Sciences and Engineering**

### *A Career in Science: Expect the Unexpected*

**Abstract:** Dr. DeLucas will discuss how he became interested in science as a student. This will be followed by discussion of some of his structural biology research projects and biotechnology inventions. He will conclude by describing how he began working with NASA performing microgravity protein crystallization experiments on the US Space Shuttle. He will also describe his experience flying in 1992 on the Columbia Space Shuttle as a NASA payload specialist astronaut. This will include a review of his selection by NASA, the required two-year training program, the launch, landing and research performed on his 14-day mission. Dr. DeLucas' presentation will conclude with a summary of current research underway on the International Space Station and NASA's plans for a future astronaut mission to Mars.

**Biography:** Dr. DeLucas is a Principal Scientist at the Aerospace Corporation. He was previously a Professor in the School of Optometry, Senior Scientist and Director of the Comprehensive Cancer Center X-ray Core Facility, and Director of the Center for Structural Biology at the University of Alabama at Birmingham (UAB). Dr. DeLucas received five degrees from UAB culminating in a Doctor of Optometry degree and a PhD in Biochemistry. He also received honorary Doctor of Science degrees from the Ohio State University, Ferris State University, SUNY College of Optometry and the Illinois College of Optometry.

He has published more than 160 peer-reviewed research articles, co-authored and edited several books on protein crystal growth and membrane proteins and is a co-inventor on 43 patents involving protein crystal growth, novel biotechnologies and structure-based drug design.

DeLucas was a member of the 7-person crew of Space Shuttle Columbia for Mission "STS-50," called the United States Microgravity Laboratory-1 (USML-1) Spacelab mission. Columbia launched on June 25, 1992, returning on July 9. He traveled more than 6 million miles, completing 221 orbits of earth and logging over 331 hours in space. From 1994 to 1995, Dr. DeLucas served as the Chief Scientist for the International Space Station at NASA Headquarters in Washington, DC.

Dr. DeLucas was the Recipient of the Dean's Award for Excellence in Mentorship in the UAB Graduate School (April 2015), an Inductee as a Fellow in the National Academy of Inventors (December 2013), and Recipient of the Odessa Woolfolk Community Service Award for his outstanding community and educational outreach activities (2012). He received the honorary Alumnus Award, Department of Natural Sciences and Mathematics (January 28, 2010), at UAB (to recognize outstanding alumni and scholarship recipients in the Department of Natural Sciences and Mathematics) and in 2004 he was recognized as a Top Ten Finalist for the Entrepreneur of the Year award from the *Birmingham Business Journal*.





*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, April 7, 2018

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.

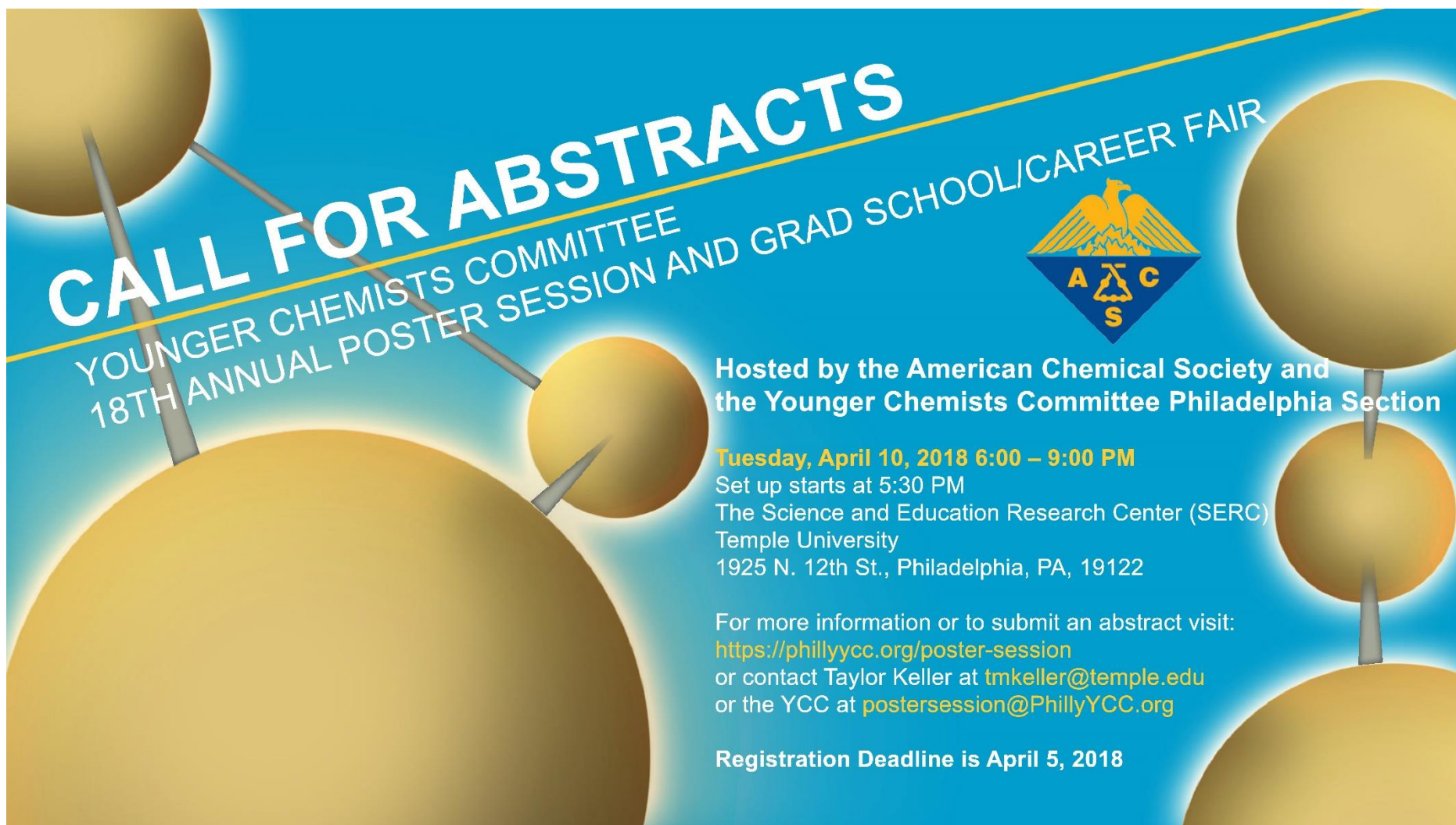


### **For more information and to**

**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 Science History Institute, VWR Scientific, Fisher Scientific, Merck & Co, Inc., and the employers of the women scientists.





# CALL FOR ABSTRACTS

YOUNGER CHEMISTS COMMITTEE  
18TH ANNUAL POSTER SESSION AND GRAD SCHOOL/CAREER FAIR



Hosted by the American Chemical Society and  
the Younger Chemists Committee Philadelphia Section

**Tuesday, April 10, 2018 6:00 – 9:00 PM**  
Set up starts at 5:30 PM  
The Science and Education Research Center (SERC)  
Temple University  
1925 N. 12th St., Philadelphia, PA, 19122

For more information or to submit an abstract visit:  
<https://phillyycc.org/poster-session>  
or contact Taylor Keller at [tmkeller@temple.edu](mailto:tmkeller@temple.edu)  
or the YCC at [postersession@PhillyYCC.org](mailto:postersession@PhillyYCC.org)

**Registration Deadline is April 5, 2018**





## 2018 CCEW Illustrated Poem Contest Dive into Marine Chemistry

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

**Contest Deadline: April 23<sup>rd</sup>**

**Prizes:** \$50.00 for the winner of each grade category  
(grades K-2 / grades 3-5 / grades 6-8 / grades 9-12)  
Each student who enters will receive a certificate

**Contact:** Send entries and entry forms to [willsmith2@aol.com](mailto:willsmith2@aol.com) (email for entry form)  
Please send a separate pdf for the entry form and entry (the judges see only the entries and not the student information).  
No submissions outside of pdf format will be accepted.

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

Write and illustrate a poem using the CCEW theme, "Dive into Marine 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**

**Possible topics related to marine chemistry include:**

Alginate	Coral	Bioluminescence	Brine
Salinity	Seaweed	Thermal Vents	Oil Spill

**Entries will be judged based upon:**

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



**Contest rules:**

- 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 yearly CCEW 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.

# CHEMICAL CONSULTANTS NETWORK

APRIL 11, 2018 MEETING

## CREATING YOUR BRAND AND A SOCIAL MEDIA PRESENCE

Lisè Schwartz – Executive Career Coach

**DATE & TIME:** Wednesday, April 11<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:** Who you are, what you do, and how you do it...as a consultant, you ARE your brand! Expressing your expertise, your niche, the unique attributes you bring to the table, can be done by establishing your brand and communicating it to clients, prospects, partners, colleagues and the public. It's imperative that today's consultants have a social media presence beyond just being listed on a site. Being recognized as a thought leader, an influencer and a community member is easier than ever but requires an understanding of the platforms and a plan. Learn how easy it really is to wrap your arms around the process and see what tools are available to help you plan and implement a campaign for yourself that will make networking and business development a breeze.

**Biography:** Lisè Schwartz began her own practice after over 20 years in diverse Fortune 500 companies, spearheading change and development through training, communications, work-force improvement and the innovative use of media. Her practice has grown to include developing emerging careers and reinventing candidates by helping translate skills and competencies from one industry or role to another. Resume writing, LinkedIn profiles and job-searching and interviewing techniques are coached in a one-on-one environment.

**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, is \$30 by reservation/cancellation deadline: **Saturday, April 7<sup>th</sup>**.

### **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](#) – including methods and techniques on how to do consulting
- [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 information and references
- [Join!](#) Most valuable – post your consulting practice information – and have greater visibility!
- If you'd like to speak with one of our members, come to a CCN meeting or call 267-666-0949.

**THE ACS PHILADELPHIA SECTION**

**Presents**

**THE CAREER CLUB**

**Tuesday, May 15, 2018**

**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!

**NEW!!!!** A representative from the Philadelphia Law Firm Getson & Schatz will be present at this Career Club meeting to provide free information on a one-time-only basis to those who have concerns about immigration law as well as to provide contact information should you wish to retain Getson & Schatz for legal counsel. You can register for this service through this website. You can register to speak with the Getson & Schatz representative, career consulting, or both! For more information on Getson & Schatz and the services that they offer, please visit <http://click4immigration.com/>

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!

The Community Center of the Giant Super Food Store is located on York Road (PA 263) in Willow Grove, PA. 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.



# 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.

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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.

## 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/>



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PHILADELPHIA SECTION, ACS  
CURRENT CALENDAR OF ACTIVITIES

Date and Time	Event	Location/Information
Monday, April 9 6 PM Social Hour 7 PM Talk	Delaware Valley Mass Spectrometry Discussion Group April Meeting, Dr. Beatrix Ueberheide, - NYU- <i>Oxidative Footprinting using Facile In-solution Methods: from Solvent Accessible Surface Determination to Epitope Mapping</i>	154 Mendel Hall, Villanova University, Villanova, PA Please RSVP to Xi Qiu ( <a href="mailto:XQiu2@its.jnj.com">XQiu2@its.jnj.com</a> ) by 3/8/18 Additional information is available at <a href="http://www.dvmsdg.org">www.dvmsdg.org</a>
Tuesday, April 10 6 – 9 PM	18 <sup>th</sup> Annual YCC Poster Session	The Science and Education Research Center (SERC) Temple University 1925 N. 12 <sup>th</sup> St., Philadelphia, PA, 19122  Sign up to present a poster or be a judge at <a href="https://www.eventbrite.com/e/acs-ycc-poster-session-and-grad-schoolcareer-fair-tickets-42112412359">https://www.eventbrite.com/e/acs-ycc-poster-session-and-grad-schoolcareer-fair-tickets-42112412359</a>
Wednesday, April 11 5:30 PM Networking 6:30 PM Dinner 7:30 PM Talk	Chemical Consultants Network Meeting, Lisè Schwartz – <i>Creating your Brand and a Social Media Presence</i>	The Cynwyd Club 332 Trevor Lane Bala Cynwyd, PA 19004 Registration and additional information is available at <a href="http://chemconsultants.org/page-1641395">http://chemconsultants.org/page-1641395</a>
Thursday, April 12 11:30 AM – 2:00 PM	Joseph Priestley Society Luncheon, Linda McGill Boasmond - <i>An Overview of Cedar Concepts Corp.</i>	Science History Institute 315 Chestnut Street Philadelphia, PA 19106 <a href="http://bit.ly/2Fej0UW">http://bit.ly/2Fej0UW</a>
Thursday, April 12 5:00 PM – 7:00 PM	Board Meeting Teleconference	<a href="https://global.gotomeeting.com/join/187081973">https://global.gotomeeting.com/join/187081973</a>
Thursday, April 19 5:30 PM Registration 6:00 PM Speaker 7:00 PM Dinner 7:45 PM Awards	Philadelphia ACS Section Meeting Student Scholastic Achievement Awards, Dr. Lawrence J. DeLucas, Director at the Center for Structural Biology and Center for Biophysical Sciences and Engineering - <i>A Career in Science: Expect the Unexpected</i>	McCall Conference Center Lynn Blvd Upper Darby, PA  <a href="https://www.eventbrite.com/e/philadelphia-section-ac-s-april-event-tickets-44195039553">https://www.eventbrite.com/e/philadelphia-section-ac-s-april-event-tickets-44195039553</a>
Thursday, April 19 6:30 PM Social Hour 7:30 PM Seminar	Philadelphia Organic Chemists' Club F. Dean Toste, University of California - Berkeley - <i>Concepts and Catalysts for Ion-Controlled Reactivity in Organic Synthesis</i>	Chemistry Department - University of Pennsylvania Carolyn Hoff Lynch Lecture Hall 34 <sup>th</sup> and Spruce Streets Philadelphia, PA <a href="http://www.pocclub.org/">http://www.pocclub.org/</a>
Sunday, June 3 All day	2018 NanoMARM Meeting	Iaccoca Hall Lehigh University Bethlehem, PA <a href="http://marmacs.org/2018/marm2018.html">http://marmacs.org/2018/marm2018.html</a>
Please check the individual websites for additional updated information		
All content submissions are due on the 15 <sup>th</sup> day of the month prior to publication		

August 19-23, 2018  
256<sup>th</sup> American Chemical Society National Meeting and Exposition  
Boston, MA

[https://www.acs.org/content/acs/en/meetings/national-meeting/program/abstract-submission.html?sc=home\\_meetings\\_180116\\_mtg\\_BO18\\_od](https://www.acs.org/content/acs/en/meetings/national-meeting/program/abstract-submission.html?sc=home_meetings_180116_mtg_BO18_od)