

# the Catalyst



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February 2018  
Volume 103, No. 2



**February Meeting  
Tour and Tasting at  
Dad's Hat Distillery**

## HIGHLIGHTS

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## ADVANCE NOTICE

**MARCH MEETING**  
**Thursday, March 15, 2018**  
**6:00 PM**

Edgar Fahs Smith Lecture and Award  
Presenter: John Hartwig, University of California, Berkeley

University of Pennsylvania  
Department of Chemistry  
Carolyn Hoff Lynch Hall  
Philadelphia, PA

See the MARCH 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***

I want to begin by wishing you a Happy New Year. We have entered 2018 with an exciting list of ACS events in the Philadelphia area! The year began with a very successful and collaborative event with the ChemPharma Professional Association on January 18<sup>th</sup> featuring Lillian Chiang, PhD, MBA from FORGE Life Science. We had a great turn-out from both scientific organizations and it was very interesting to hear about the challenges and achievements associated with building a company from scratch. To follow, February brings a tour and whiskey tasting at Dad's Hat Distillery in Bristol, PA. Our guide

will be Herman Mihalich, who understands the chemical process of making the perfect whiskey thanks to his chemical engineering background and love for the product. I hope to see you there on February 15th.

In addition to monthly Section meetings, the ACS supports several other valuable programs and events. One of these is Project SEED, which provides opportunities for students to spend a summer conducting hands-on research with a scientist in academic, industry and government laboratories. This year will mark the 50<sup>th</sup> anniversary of the project and in recognition of this accomplishment I am calling out to all of you to participate and help make this year the most impactful yet! You can participate in three crucial ways:

- Nominate a junior or senior high school student who is interested in participating in the program
- Volunteer to serve as a research mentor for Project SEED participants
- Provide financial support by donating to Project SEED

Students that participate in the program receive a fellowship award for their efforts and a chance to receive a SEED college scholarship. If you would like to learn more about the program, please visit the Project SEED website at:

<https://www.acs.org/content/acs/en/education/students/highschool/seed.html>. If you have students that you would like to nominate or if you are interested in being a mentor, please contact Cecilia Hernandez at [projectseed@acs.org](mailto:projectseed@acs.org). Project SEED is a fantastic program that introduces the excitement of scientific research to students who historically lack exposure to scientific careers. I urge you to get involved!

Thank you to our Section members for all that you do and my door is always open if you have questions on how to get involved ([ewagoner22@gmail.com](mailto:ewagoner22@gmail.com)). I hope your 2018 has started well and I look forward to seeing you at this year's events.

## NEWS ATOMS—Alan Warren

The **Chemical Heritage Foundation** was renamed the **Science History Institute**, effective February 1, 2018. With the merger of CHF and the Life Sciences Foundation in San Francisco, the new name will reflect the combined efforts in preserving the history of the chemical and molecular sciences and the accompanying engineering fields.

**Daniel José Mindiola**, professor in the chemistry department at Penn, was elected a Fellow of the American Association for the Advancement of Science.

### DEATHS

**Frank B. Mallory**, professor emeritus of chemistry, November 7, 2017 at 84. He joined the faculty of Bryn Mawr as assistant professor of chemistry in 1957. He moved to associate professor in 1963 and professor in 1969. In 1985 Mallory was named W. Alton Jones professor of chemistry. He held that position until he retired in 2011. He was also a visiting professor of the State University of New York, Yale, Cornell and Penn.

During his 54-year tenure at Bryn Mawr he chaired the chemistry department for 10 years. He was believed to be the longest-serving member of the faculty. His fields of research included photochemistry, NMR spectroscopy, and the structure and synthesis of solid-state materials. In 2014 he was elected a Fellow of the ACS.

In addition to authoring many articles and book chapters he served on the editorial advisory boards for the *Journal of Organic Chemistry* and *Organic Letters*. He was a past member of the executive board of the ACS Division of Organic chemistry and past chairman of the Philadelphia Organic Chemists' Club. In 1989 he was honored with the Philadelphia Section award. In 1992 he received the Christian R. and Mary F. Lindback Foundation award for distinguished teaching. Frank was an ardent clarinetist and founding member of the Bryn Mawr Chamber Music Society.



### Speaker's Biography

**Herman Mihalich**

**Founder, Dad's Hat Distillery**

In a way, Herman Mihalich's childhood in Monessen, PA predicted his future as the founder of Dad's Hat Pennsylvania Rye Whiskey. It was there, after all, living in an apartment above his family's bar, where Mihalich experienced the sights, sounds and stories that would eventually inspire him to reintroduce the world to Pennsylvania's once-rich rye whiskey producing heritage. Before coming full circle back to these roots, Mihalich made his mark as a Chemical Engineer. Of course, the fond memories of his father's bar remained a constant in Herman's life and ultimately led him to realize his life's ambition in 2010, when he launched the Dad's Hat distillery in Bristol. Many years have passed since Herman's youth in that Western Pennsylvania town but he's now exactly where he wants to be – carrying on a tradition close to his heart.

## **FEBRUARY MEETING**

Board of Directors Meeting  
Dad's Hat Distillery  
4:30 – 6:00 PM

### **Tour and Whiskey Tasting at Dad's Hat Distillery Speaker and Tour Guide: Herman Mihalich**

**Thursday, February 15<sup>th</sup>**

**Tour, Tasting, and Meal  
6:00 – 9:00 PM**

Dad's Hat Distillery  
925 Canal St, Bristol, PA 19007

Tour and tasting only - \$20 members / \$10 students  
Meal only - \$25 members / \$10 students  
Tour, tasting, & meal - \$45 members / \$20 students

Registration at  
<https://www.eventbrite.com/e/tour-and-tasting-at-dads-hat-distillery-tickets-42300407658>

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



**NOMINATIONS INVITED  
FOR THE 2018 PHILADELPHIA SECTION, AMERICAN CHEMICAL SOCIETY  
AWARD**

The Philadelphia Section invites its members and regional and topical groups to consider recommending candidate(s) for the Philadelphia Section Award.

This Award recognizes an individual, “who, by conspicuous scientific achievement through research, has made important contributions to man’s knowledge and thereby aided the public appreciation of the profession.” Any member of the American Chemical Society, Philadelphia Section, may be nominated for this award. Recent awardees include: Kurt W. Kolasinski (West Chester University), Anthony W. Addison (Drexel University), and Donna Huryn (University of Pennsylvania).

**INSTRUCTIONS FOR SUBMITTING NOMINATION**

- (1) The nominator should provide a CV of the nominee, showing education, employment and/or academic history, a list of publications, presentation and patents; and a record of other accomplishments pertinent to consideration for this award.
- (2) One or two seconding letters (at least one of which should be from a person in an organization other than that of the nominee) should be requested in support of the nomination.
- (3) Nominators and seconders should be identified with addresses, email and telephone numbers so that they can be contacted, if necessary, for additional information.
- (4) Unsuccessful nominees from previous years may be renominated. In fairness to the nominee, however, renominations must be accompanied by an updating of the nominee’s biographical data and list of accomplishments in order to make the nomination competitive. Unsuccessful nominees who have been considered three years in a row should not be renominated for the fourth year in succession without prior consultation by the nominator with the chair of the Awards Committee.

Nomination forms are available from the Section Office at:

Philadelphia Section, ACS  
Department of Chemistry  
University of Pennsylvania  
Philadelphia, PA 19104-6323  
(215) 382-1589; email [PhilaACS@gmail.com](mailto:PhilaACS@gmail.com)

The completed packet of nomination materials may be emailed to [PhilaACS@gmail.com](mailto:PhilaACS@gmail.com) or mailed by **April 1<sup>st</sup>** to Chair, Awards Committee, at the section office address above.



## CALL FOR NOMINATIONS



### **The Philadelphia Section, American Chemical Society AWARDS FOR EXCELLENCE IN PRE-COLLEGE TEACHING**

The Philadelphia Section of the American Chemical Society will honor two outstanding science teachers with its Awards for Excellence in Pre-College Science Teaching. One award will be given to a full-time educator involved in teaching science in grades K-8. The second award will be given to a full-time educator at the secondary level (grades 9-12) who teaches chemistry. Nominees must teach in the Philadelphia Section's geographic area (Philadelphia, Montgomery, Delaware, Chester, Bucks, Burlington and Camden counties).

**Nominations for 2018 will be accepted until February 22, 2018.**

#### **Award for Excellence in Pre-College Teaching Nomination Packet Requirements**

- A **Nominator Recommendation** of not more than 750 words submitted by the nominator according to the guidelines outlined on the Recommendation Form.
- A **current curriculum vitae or resume** that includes a list of the nominee's honors, professional activities, and additional evidence of service to the profession. This must be limited to no more than two pages and the activities listed must have occurred within the past five years.
- A **statement by the nominees** of not more than 500 words that describes the nominee's teaching philosophy or commitment to the profession.
- **At least one, but not more than three, letters of support.** One letter, of no more than 400 words, must be from the teacher's current principal or supervisor. Additional letters of support, of no more than 400 words, may be sent by colleagues, members of the American Chemical Society who are familiar with the nominee's achievements, or former students and parents of former students.

The total nomination package should not exceed 30 pages. The nomination package may be emailed to [PhilaACS@gmail.com](mailto:PhilaACS@gmail.com) or a copy of the nomination materials may be mailed to:

Chair, Awards Committee  
Philadelphia Section, ACS  
Department of Chemistry  
University of Pennsylvania  
Philadelphia, PA 19104-6323

**The award recipient will be honored at our May 2018 Section meeting with a plaque and honorarium.**

## CALL FOR NOMINATIONS



### **Philadelphia Section, American Chemical Society AWARD FOR EXCELLENCE IN UNDERGRADUATE TEACHING IN THE CHEMICAL SCIENCES**

The Philadelphia Section of the American Chemical Society will honor an outstanding undergraduate teacher with its Award for Excellence in Undergraduate Teaching in Chemical Sciences. The award will be given to a full-time educator involved in teaching an undergraduate course in the chemical sciences (chemistry, biochemistry). Nominees must teach in an institution that is within the Philadelphia Section's geographic area (Philadelphia, Montgomery, Delaware, Chester, Bucks, Burlington and Camden counties).

**Nominations for 2018 will be accepted until February 22, 2018.** The nomination should consist of a letter of nomination, the nominee's resume and two letters of recommendation. Other supporting information, such as students' comments, is welcome. The total nomination package should not exceed 30 pages. The nomination package may be emailed to PhilaACS@gmail.com or the nomination materials may be mailed to:

Chair, Awards Committee  
Philadelphia Section, ACS  
Department of Chemistry  
University of Pennsylvania  
Philadelphia, PA 19104-6323

For more information, please contact the Philadelphia Section, ACS office: phone: (215) 382-1589 or email: PhilaACS@gmail.com

**The award recipient will be honored at our May 2018 Section meeting with a plaque and honorarium.**



**THE ACS PHILADELPHIA SECTION  
Presents**

**THE CAREER CLUB**

Wednesday, February 28, 2018  
The Community Center of the Giant Super Food Store  
315 York Road  
Willow Grove, PA 19090  
4-6 PM

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!

To register for this free service, please visit  
<https://acsphillycareerclub10.eventbrite.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, 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.

## Call for Abstracts



# Younger Chemists Committee 18<sup>th</sup> Annual Poster Session & 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. 12<sup>th</sup> St., Philadelphia, PA, 19122

For more information or to submit an abstract visit

<https://www.eventbrite.com/e/acs-ycc-poster-session-and-grad-schoolcareer-fair-tickets-42112412359>

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**

# CONSULTANTS NETWORK

FEBRUARY 7, 2018 MEETING

## SENSORS: OPPORTUNITIES FOR CONSULTANTS

Dr. John Newport, Chemventive, LLC

**DATE & TIME:** Networking, 5:30 PM; Dinner, 6:30 PM; Talk and Business Session, 7:30 PM

[Click here to register](#)

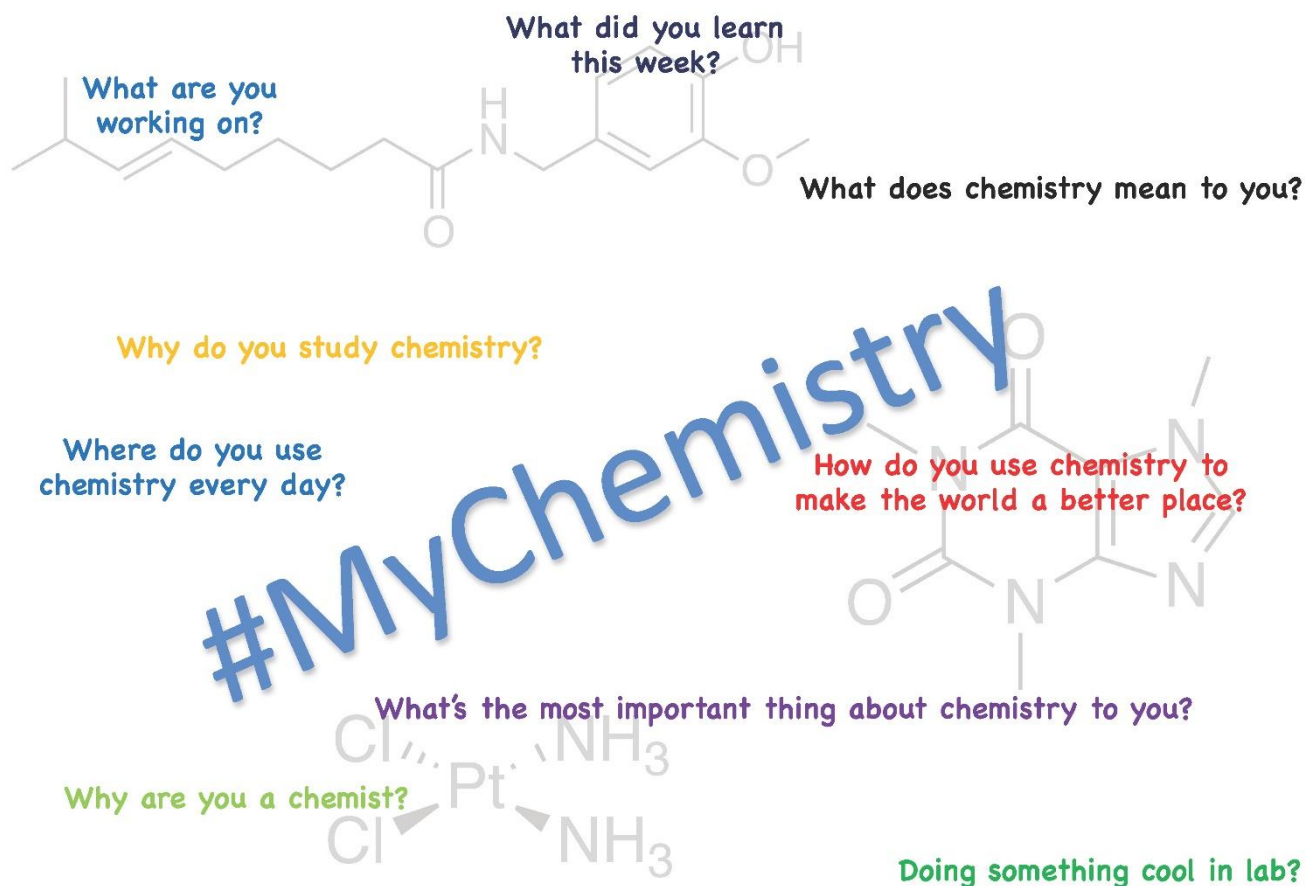
**Abstract:** There has been an explosion of interest in the development and deployment of all manner of sensors in the last few years. So much so, that the ACS has a new journal devoted entirely to them and Uncle Sam has a website that serves their interests in sensors of all types. A wide range of chemistries are employed in meeting today's needs. This interest generates opportunities for CCN members with their broad range of skills and expertise. This presentation covers a little history, many examples from the present day and a peek into what the future might bring.

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

**Location:** The Cynwyd Club, 332 Trevor Lane, Bala Cynwyd, PA 19004 [Map](#) [Directions](#)

**Reservation:** Use this page to register online 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, Feb. 3<sup>rd</sup>.

## The Philadelphia Younger Chemists Committee invites you to a #MyChemistry Twitter war!



Share your chemistry with us! Tweet a photo of chemistry in your life: in the lab, in class, at work, at home, anywhere!

Be sure to use #MyChemistry in your Tweet, and tag us (@PhillyYCC) & the Twitter account of your group, university, or company. The organization with the most #MyChemistry tweets in February 2018 will win a pizza party courtesy of the Philadelphia Younger Chemists Committee!

*The Fine Print: Contest only open to organizations in the Philadelphia ACS local section. To be counted, Tweets must 1) be appropriate, 2) be posted between 2/1/2018 – 2/28/2018, and 3) tag #MyChemistry, @PhillyYCC, and the account of your group, university, or company. Repeated Tweets of the same photo will not be counted. Value of the pizza party is \$150.*



# DIRECTORY OF SERVICES

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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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## 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, February 5 6 PM Social Hour 7 PM Talk	Delaware Valley Mass Spectrometry Discussion Group February Meeting, Dr. Jeremy Barry, GlaxoSmithKline: <i>Imaging Mass Spectrometry: A New Frontier in Drug Discovery and Development</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 2/8/18. Additional information is available at <a href="http://www.dvmsdg.org">www.dvmsdg.org</a>
Wednesday, February 7 5:30 PM Networking 6:30 PM Dinner 7:30 PM Talk	Chemical Consultants Network Meeting Dr. John Newport – Chemventive, LLC: <i>Sensors: Opportunities for Consultants</i>	The Cynwyd Club 332 Trevor Lane Bala Cynwyd, PA 19004 Registration and additional information is available at <a href="http://chemconsultants.org/event-2775807">http://chemconsultants.org/event-2775807</a>
<b>Thursday, February 15 6 – 9 PM</b>	<b>Philadelphia ACS Section Meeting Tour and Whiskey Tasting at Dad's Hat Distillery – Bristol, PA</b>	<b>925 Canal St. Bristol, PA 19007 See page 27 of this issue for details</b>
Thursday, February 22 6:30 PM Social Hour 7:30 PM Seminar	Philadelphia Organic Chemists' Club, Mary P. Watson, University of Delaware: <i>Harnessing Alkyl Amines and Alkyl Alcohols for Nickel-Catalyzed Cross Couplings via C-N and C-O Bond Activation</i>	Chemistry Building - University of Pennsylvania 34 <sup>th</sup> and Spruce Streets Philadelphia, PA <a href="http://www.pocclub.org/">http://www.pocclub.org/</a>
Wednesday, February 28 4 – 6 PM	ACS Philadelphia Career Club	The Community Center of the Giant Super Food Store 315 York Road Willow Grove, PA 1909 Registration and additional information is available at <a href="https://www.eventbrite.com/e/acs-philadelphia-section-career-club-tickets-42043722907">https://www.eventbrite.com/e/acs-philadelphia-section-career-club-tickets-42043722907</a>
<b>Thursday, March 15</b>	<b>Edgar Fahs Smith Lecture and Award, John Hartwig, University of California, Berkeley.</b>	<b>University of Pennsylvania, Department of Chemistry Carolyn Hoff Lynch Hall Philadelphia, PA</b>
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>
<b>Please check the individual websites for additional updated information</b>		
<b>All content submissions are due on the 15<sup>th</sup> day of the month prior to publication</b>		

**March 18-22, 2018**  
**255<sup>th</sup> American Chemical Society National Meeting and Exposition**  
**New Orleans, LA**

[https://www.acs.org/content/acs/en/meetings/national-meeting.html?sc=meetings\\_170818\\_mtg\\_NO18\\_od](https://www.acs.org/content/acs/en/meetings/national-meeting.html?sc=meetings_170818_mtg_NO18_od)

**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/about/future-meetings.html>