

# *the Catalyst*



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

January 2018  
Volume 103, No. 1



**January Speaker**  
**Dr. Lillian Chiang**  
President and CEO, FORGE Life Science

## HIGHLIGHTS

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## ADVANCE NOTICE

**FEBRUARY MEETING**  
Thursday, February 15, 2018  
6:00 – 8:00 PM

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

925 Canal St.  
Bristol, PA 19007

See the FEBRUARY 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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## INTRODUCING OUR NEW CHAIR —Dr. Elizabeth (Lizzy) Wagoner

Dr. Elizabeth (Lizzy) Wagoner will serve as the 2018 Chair of the Philadelphia ACS Section. She is a Senior Scientist and Technical Services Manager with the specialty chemicals company, Evonik, located in Horsham, PA. Her current responsibilities include coordination of global customer specification agreements, support for global test methods group, and oversight of the analytical laboratory. Prior to working for Evonik, she began her career in 2014 with ExxonMobil where she served many roles. In addition to conducting research in industrial lubricants and grease formulation, she also acted as the Analytical Sciences Laboratory Supervisor.

Lizzy graduated Magna Cum Laude from Butler University with a BS in Chemistry and Spanish, followed by a PhD in Analytical Chemistry with a minor in Environmental Science from Indiana University. Her research focused on the electrochemical remediation of halogenated pollutants with a strong focus on chlorofluorocarbons. While in graduate school, she served on the executive committee for the first Indiana University Chapter of the Electrochemical Society and was active in American Chemical Society events. She has several publications and has been recognized for her accomplishments in academics and service with many awards.

After graduating from Indiana University, she moved to Philadelphia to begin working in industry. During her first week in the new city, she attended a YCC trivia event and was introduced to the Philadelphia ACS Section for the first time. Shortly after, Lizzy joined the Philadelphia Section Board of Directors and YCC where she was able to contribute her time, ideas and enthusiasm to the ACS during a year when Philadelphia was hosting the National Meeting. She was then elected to be chair-elect in 2017 and chair of the Section's awards committee.

In addition to being an avid chemist and ACS volunteer, Lizzy is also a dancer, ultimate frisbee player, world-traveler and dog-owner. She currently lives in the Italian Market area of Philadelphia with her two rescue dogs. She is a co-citizen of Great Britain and the United States. She is also an identical twin. Although her twin lives in Colorado, she visits Philadelphia often and volunteers with our ACS section when she can.

## Comments From the Chair



### Lizzy Wagoner

I would like to start by thanking the members of the Philadelphia Section of the ACS for electing me to serve as their 2018 Chair. I am truly honored to be taking on the role. We have fantastic momentum from an event-filled 2017. In addition to our monthly meetings, we had many events hosted by our Career Services, Chemical Consulting Network, Education and Community Outreach, Women's Chemistry, and Younger Chemists committees. As a direct result of the work of Immediate Past Chair, Dr. Deb Cook, we had many well-known and stimulating speakers address our Section. Among those we were hon-

ored to host were Sam Kean, the author of the best-selling novel *The Disappearing Spoon* as well as Marcia McNutt, the President of the National Academy of Sciences and Philadelphia's Ulyot Lecturer. Our Career Services team has also strove to be a valuable resource for our members and hosted many events such as a multi-section career panel discussion for displaced workers, networking events and career clubs. Since many of our Philadelphia members are students and young professionals, the members of the Younger Chemists Committee have put a lot of energy and excitement into their programming and host many networking events throughout the Philadelphia area. My main goal this year is to continue to build off of 2017's momentum and increase participation at Section events. I will develop engaging and pertinent programing, as well as work with our Communications Committee to enhance our digital communication platforms.

Future meetings will be listed on our website:

(<http://philadelphia.sites.acs.org/meetingsandevents.htm>) and published monthly in *the Catalyst*. To begin the year, our January meeting will be held at the Yardley Inn in Yardley, PA, and will be co-hosted with the ChemPharma Professional Association. Our speaker, Dr. Lillian Chiang is the founder and CEO of FORGE Life Science and will be speaking about entrepreneurship in STEM and the key things she learned from beginning three successful start-up companies. In February, we will be touring the Dad's Hat Distillery in Bristol, PA and be guided by our local expert Herman Mihalich. The event will include a tasting of their hand-crafted whiskey and a chemical engineer's viewpoint on distilling the perfect batch. The Edgar Fahs Smith Memorial Lecture will take place in March and Professor John F. Hartwig will be speaking. In April, Larry DeLucas will give a talk on his experiences as a Payload Specialist aboard NASA Space Shuttle Mission STS-50, his research in space, and his accomplishments in science on Earth. The year-end event for the Section is the annual Ulyot Public Affairs Lectureship in November at the Chemical Heritage Foundation. Thanks to the generosity of Dr. Glenn and Barbara Ulyot, the Philadelphia ACS section, the Delaware ACS section, the University of Pennsylvania, the University of the Sciences, and the Chemical Heritage Foundation, we will be hosting Dr. Jennifer Doudna who is a leading figure in the CRISPR Revolution. We have exciting events planned for 2018 and I hope you can attend.

The success of our Section and the opportunities to network with fellow Philadelphia-area scientists are thanks to the strong team of our local ACS and to participating members. I am new

to serving for the ACS and come to lead this Section with fresh ideas. I am grateful to have an executive committee with matching enthusiasm as well as many years of expertise. I am joined by Dr. Flory Wong as Chair-elect, Dr. Deb Cook as Immediate Past Chair, Dr. David Cichowicz as Treasurer and Mr. Alan Heldon as Secretary. I am also grateful for our excellent Board of Directors, Councilors and Committee Chairs who work together to serve the Philadelphia ACS members. We have very active committees and in addition to attending our events, please consider becoming a volunteer for the Section. I aspire to engage all of our local members and am looking forward to feedback for future improvements. Thank you and I look forward to meeting you at our events in 2018!

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## NEWS ATOMS—*Alan Warren*

**Eric Schelter**, associate professor of chemistry at Penn, and his research group recently won the Environmental Protection Agency's Green Chemistry Challenge award for developing a low-cost technology to recycle rare-earth materials.

**Ben Black**, associate professor of biochemistry and biophysics at Penn, was one of a two-member team that received a new initiatives grant to study chromosome segregation.

**Abraham Nitzan**, Penn professor of chemistry, was awarded the 2017-2018 Joseph O. Hirschfelder prize from the Wisconsin-Madison Theoretical Chemistry Institute.

**Karen Goldberg** recently joined Penn as the first Vagelos professor in energy research and director of the Vagelos Institute for Energy Science and Technology.

**Kristen W. Lynch**, professor of biochemistry and biophysics, was appointed chair of the department of biochemistry and biophysics at Penn.

### DEATHS

**Gerald F. Connell**, water treatment executive, June 29, 2015 at 85. After 30 years as a marketing executive at Capitol Controls he was named executive director of the Chlorine Gas Disinfection Association. His career was involved with chlorine, sulfur dioxide and ammonia in treating water and wastewater. Connell authored a handbook on chlorination chemistry. He also taught mathematics at La Salle University's evening division. His passion was track and field where he was involved with indoor, outdoor and cross-country events at the high school and college level, serving over 30 years as an official at the Penn Relays Carnival. He also officiated at the 1984 Los Angeles Summer Olympics.

**Alfred Hahn, Jr.**, chemical engineer in the petroleum field, August 7, 2016 at 82. He worked in process development for Sun Oil and was involved in the commercialization of polypropylene and naphthalene. He also served Sun in R&D administration before joining Getty Oil's Delaware City refinery in 1974. There he worked on refinery planning for crude oil arrivals and

heating oil shipments. In subsequent years Getty was purchased by Texaco and then co-owned by Saudi Aramco. During those years he planned the refinery expense budget.

**Maryann M. Taylor**, retired leather chemist, August 14, 2017 at 77. Her career was with the US Department of Agriculture. She served as president of the American Leather Chemists Association and as a member of its editorial board.

**Richard G. “Dick” Mansfield**, textile industry specialist, September 1<sup>st</sup> at 89. Following two years of service in the US Army Corps of Engineers R&D laboratory in Belvoir, VA, he specialized in polypropylene, textiles and nonwovens and worked for Rohm and Haas. Mansfield wrote extensively and later was a consultant in these areas. He was a 70-year member of ACS.

**Zoe G. Proctor**, retired chemistry professor, September 5<sup>th</sup> at 83. She served on the faculty of Elizabethtown College for 37 years.

**Henry “Si” Sineath**, retired industry executive and professor, October 8<sup>th</sup> at 95. He worked for American Viscose, later FMC, for 20 years, rising to corporate vice president of the chemical group. He then joined the faculty of the University of Missouri-Rolla in the department of engineering management and was later named department chairman. In 1988 he became professor emeritus. Sineath then consulted in the field of packaging engineering. He was inducted into the Packaging Education Hall of Fame and was a charter member of the American Society for Engineering Management. He was a 60+ year member of ACS.

**E. Richard “Dick” Harkins**, retired chemical engineer, October 11<sup>th</sup> at 76. He worked at E.I. DuPont for five years and then served as vice president of manufacturing at Sentry Paint and Chemical Company. Harkins then moved to Finneran & Haley Paint Company where he held the same position, retiring in 2003.

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## RESULTS OF THE FALL 2017 ELECTIONS

### Chair Elect

Flory Wong

### Secretary

Alan Heldon

### Directors

Melissa Cichowicz

Sharon Haynie

Rick Ewing

Erin Fruchey

Victor Tortorelli

James Murray

Lee Hoffman

### Councilors

Melissa Cichowicz

Kathleen Thrush Shaginaw

Georgia Arbuckle-Keil

Ella Davis

### Alternate Councilors

Kathryn Lysko

John Tierney

Erin Fruchey

Steven Fleming



**JANUARY MEETING**

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

**JOINT PHILADELPHIA SECTION NETWORKING EVENT with  
ChemPharma Professional Association**

**Thursday, January 18<sup>th</sup>**

**5:30 – 8:30 PM**

**Speaker: Lillian Chiang, PhD, MBA**

**President and CEO, FORGE Life Science**

*Starting a Company from Scratch: Lessons Learned from a Scientist CEO*

**Yardley Inn  
82 E. Afton Ave, Yardley, PA 19067**

**Cost: \$25**

**Student with ID: \$13**

**Sign-up at**

**<https://www.eventbrite.com/e/january-meeting-tickets-41350368064>**

Or by contacting Section Office

[PhilaACS@gmail.com](mailto:PhilaACS@gmail.com)

(215)-382-1589

# SPEAKER'S ABSTRACT AND BIOGRAPHY

**Lillian Chiang, PhD, MBA**  
**President and CEO, FORGE Life Science**

## *Starting a Company from Scratch: Lessons Learned from a Scientist CEO*

**Abstract:** Lillian Chiang, a scientist by training and serial entrepreneur by choice, will share her lessons learned in boot-strapping a local start-up biopharma company from getting grants, to managing operations, to getting seed investment moneys.

**Biography:** Dr. Chiang's career has been dedicated to the translation of new innovations in molecular research, at the bench, in the clinic, and at the business level. At Millennium Pharmaceuticals she propelled their array platform from bench-scale concept to reproducibly robust genome-scale technology. Her research was a cornerstone of Millennium's collaborations on disorders of the central nervous system, and the technology platform was central in Millennium's \$218 M and \$465 M collaborations with Monsanto and Bayer, respectively. She next joined Purdue Pharma, where she staffed and directed the Molecular Biology department from scratch building bioinformatic, genomic, and proteomic infrastructure for the identification and validation of targets for pain and substance abuse therapy. Her department provided molecular support for all drug discovery programs leading to two drug development candidates per year, and Dr. Chiang served as member of the discovery research management team for operations, resource and portfolio management, and strategic planning. During a sabbatical at the Institute for Advanced Study in Princeton, Dr. Chiang developed algorithms for data mining and cross-platform analysis of public data, forming the core platform for her first start-up company in 2005, Aestus Therapeutics. Aestus' strategy comprised a unique triage of public information including genomic, pharmaceutical, intellectual property, and business data to identify novel disease indications for phase 1+ therapeutics that had previously failed in efficacy. As Co-Founder and CSO, Dr. Chiang successfully identified repositioning candidates for in-licensing and developed them in a virtual pharma environment. Aestus' first product successfully progressed from novel idea through completion of phase 2A clinical trial in 5 years and \$5 M spend. Her second start-up company Kadmon Corporation, successfully raised >\$300 M in capital to build a fully integrated pharmaceutical company from research to marketed products. As VP of Translational Medicine, Dr. Chiang was responsible for the biomarker strategy and clinical translation of Kadmon's deep pipeline from phase 1 through phase 3. Dr. Chiang's third and current start-up company, FORGE Life Science is dedicated to the commercialization of innovative research from Princeton University identifying human Sirtuin proteins as newly discovered viral restriction factors. FORGE is developing next generation antiviral drugs with activity against a broad spectrum of viruses and reduced susceptibility to acquired resistance. Dr. Chiang received her BS from the Massachusetts Institute of Technology, her PhD from the University of Wisconsin – Madison, her Post-Doctoral training from Stanford University Medical School, and her MBA from the Wharton School at the University of Pennsylvania.





**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: Feng Gai (University of Pennsylvania), Donna Huryn (University of Pennsylvania) and Anthony W. Addison (Drexel University).

**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.

## 2018 OFFICERS AND BOARD OF DIRECTORS

### OFFICERS

CHAIR	Elizabeth Wagoner
CHAIR-ELECT	Flory Wong
SECRETARY	Alan R. Heldon
TREASURER	David Cichowicz
IMMEDIATE PAST CHAIR	Deborah Cook

### DIRECTORS

2016-2018	2017-2019	2018-2020
Christie McInnis	Anne DeMasi	Melissa Cichowicz
James Tarver	Kathleen Thrush Shaginaw	Sharon Haynie
Jason Cross	Joseph A. Martino III	Rick Ewing
Ella Davis	Kathryn Lysko	Erin Fruchey
Lee Hoffman*	James Murray	Victor Tortorelli

\*Electee serves for the remainder of the denoted term.

### COUNCILORS

2016-2018	2017-2019	2018-2020
Rick Ewing	Deborah Cook	Melissa Cichowicz
Anne DeMasi	Christie McInnis	Kathleen Thrush Shaginaw
Tony Addison	Marge Matthews	Georgia Arbuckle-Keil
	Judith Currano	Ella Davis

### ALTERNATE COUNCILORS

2016-2018	2017-2019	2018-2020
Russ Phifer	Alan Heldon	Kathryn Lysko
Lee Hoffman	Mark Forman	John Tierney
Michael Castaldi	Joseph A. Martino III	Erin Fruchey
	James Murray	Steven Fleming

## 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](mailto: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](mailto:PhilaACS@gmail.com)

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

# CONSULTANTS NETWORK

JANUARY 10, 2018 MEETING

## INTRODUCTION TO CCN & HOW TO LAUNCH A CONSULTING BUSINESS

Arve Holt – Chemical Consultants Network

**DATE & TIME:** 11:00 AM, Wednesday, January 10<sup>th</sup>, at Right Management, Wilmington, DE

[Click here to register](#)

**Abstract:** The Chemical Consultants Network (CCN) is an organization of chemists and chemical engineers who work as consultants. CCN is a topical group of the American Chemical Society, Philadelphia Section, and is also supported by the American Institute of Chemical Engineers. CCN holds monthly meetings in the Philadelphia area on topics of interest to people in the chemical enterprises. Our Chair, Arve Holt, will give a brief history and description of the group and its mission. Arve will also discuss how people with expertise in the chemical enterprise (chemists, chemical engineers, life scientists, biotechnologists, computational chemists, executives, etc.) can contact CCN and use the online resources to launch careers in consulting. Other topics for discussion will include how networking tools such as LinkedIn can be used for business development. Right Management has kindly agreed to host this meeting and the Q&A session following the presentation. Both organizations will provide a complimentary lunch. Reservations are required and space is limited to the first 30 registrants.

**Biography:** Arve B. Holt, PE is a Senior Engineering Advisor with Becht Engineering Co., Inc. His career has included 30+ years with Sunoco Inc., where he held various engineering and management positions, among those Instrumentation and Processing Computing Dept. Manager, and Operations Manager of the Tulsa Refinery. Presently, as an Engineering Advisor, his assignments include mentoring younger engineers, along with straight engineering assignments.

**Location:** Right Management, 200 Bellevue Pkwy, Wilmington, DE 19089

**Directions:** Use “Directions” button on [MAP](#) link & enter your start point

**Reservation:** [Click here to register to attend the event](#), or e-mail [CCNReservations@aol.com](mailto:CCNReservations@aol.com) or call the CCN phone number at (877) 326-2959 and leave a message. Lunch is free of cost for registered participants. The reservation/cancellation deadline is **Saturday, Jan. 6<sup>th</sup>**.

692<sup>nd</sup> BOARD OF DIRECTORS MEETING

September 28, 2017

Doylestown, PA

Present: Michael Castaldi, David Cichowicz, Melissa Cichowicz, Deborah Cook, Jason Cross, Ella Davis, Anne DeMasi, Rick Ewing, Alan Heldon, Lee Hoffman, Kathie Lysko, Joseph A. Martino, Christie McInnis, Craig McClure, Victor J. Tortorelli, Elizabeth Wagoner

Absent: Judy Summers-Gates and James Tarver

Excused: Kathleen Thrush Shaginaw

Also present: CJ Bruner, JP Northrop, Bill Smith

The 692<sup>th</sup> Board Meeting of the Philadelphia Section, ACS, was called to order at 4:18 PM. A quorum was present.

There were no Minutes outstanding to be submitted to the Board.

1. Officers

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

1. The October Meeting, West Chester University, Thursday, October 19<sup>th</sup>, will be the Section Award. The Chair-Elect is finalizing the program.
2. The November Meeting, at Chemical Heritage Foundation, 16<sup>th</sup>, is the Ullyot Public Affairs Lecture.
3. The December Meeting venue is under consideration.
4. The new Section Administrator is on sick-leave from the U. of Pa. Chemistry Department office. Krista will try to continue to help but is moving. Ongoing problem.
5. Filling vacancies. Director and Councilor vacancies were created by Judy Cohen's resignation. Both terms of office expire 2018. It was determined that there was no need to fill the vacancies for the remainder of 2017 and the 2018 portion will be filled through the upcoming Section election.

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

1. Reported progress toward obtaining a Chair-Elect candidate.
2. Awards Committee
  - Reviewing candidates for various awards. Please note deadlines.
  - An email blast will be done for Student Awards.

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)

Upcoming need to transfer Ullyot funds.

Generally doing well. Capital fund, Awards fund and Ullyot funds are up.

Report not voted.

E. Report on Election Slate

Rich Ewing, Nominating Committee, Past-Chair, [ewingwre@comcast.net](mailto:ewingwre@comcast.net)

- Seven Director positions need to be filled. There are 14 candidates.
- There are 14 Councilor candidates.
- There is only one candidate for Chair-Elect. This contingency is covered by the Bylaws.

On motion the slate was submitted for Board approval. As a simple voice vote did not resolve the numbers of the yeas and nays, a Roll-Call Vote was requested.

Roll-Call Vote result:

Michael Castaldi, Yea; David J. Cichowicz, Nay; Melissa Betz Cichowicz, Nay; Deborah H. Cook, Nay; Jason Cross, Yea; Ella Davis, Abstain; Anne DeMasi, Yea; Rick Ewing, Yea; Alan Heldon, Yea; Lee Hoffman, Yea; Kathie Lysko, Nay; Joe Martino, Yea; Christine



McInnis, Yea; Craig McClure, Yea; Kathleen Shaginaw, Absent; Judy Summers-Gates, Absent; James Tarver, Absent; Victor J. Tortorelli, Nay; Elizabeth Wagoner, Yea.

Absent 3, Abstain 1, Yea 10, Nay 5. The slate is approved.

## 2. Committees

### A. Budget, Vic Tortorelli, [vtortorelli@ursinus.edu](mailto:vtortorelli@ursinus.edu)

Discussion of Social and Program Committee expenses which are currently over budget. Discussion of 2018 S. and P. budgeting needs and need to increase allocation. Need to determine which meetings are over budget.

### B. Election Schedule, Jason Cross, [jpc359@drexel.edu](mailto:jpc359@drexel.edu)

Discussion of election schedule and sending ballots.

Need to reconsider candidate and election procedure for 2018 cycle.

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

1) The Career Club at the Giant Community Center on September 12<sup>th</sup> was successful, with ACS Career Consultants Lori Spangler and Joe Martino staffing the event and four participants signed up for it. The appointment format proved to be worthwhile, making it convenient to reschedule appointments where needed for the sake of convenience for both participants and volunteers. Moving forward, the appointment format will be the standard mode of practice. Career Services reserved a 4PM to 9PM timeslot for the event; future Career Clubs will use a 4PM to 6PM time frame, and will adjust upon demand. Career Services would like to acknowledge and thank Alan Heldon for photographing the event.

2) Career Services and YCC will be hosting a Fall Networking Event on November 6th from 4PM to 9PM at the Fox & Hound Sports Grill in King of Prussia, PA. Space reserved at Fox & Hound comes at no charge to the Section; thanks go out to Christie McInnis for her efforts in reserving the venue. The event will be publicized as an "ACS Philadelphia Section" event to encourage the widest audience possible. For the first hour, Joe Martino will present the networking module of the "Finding Your Path" workshop in his role as an ACS Career Pathways presenter. The remaining time will consist of networking. An Eventbrite website has been established for the event, and publicity has begun.

3) Career Services supported two events sponsored by Temple University's College of Science and Technology. The first event was a speed networking event held on September 14th, supported by Joe Martino. The second event was a Career Fair held on September 22nd, supported by Lori Spangler and Joe Martino. Significant chemistry traffic was observed for the Career Fair event. However, the speed networking event consisted of predominantly computer science majors. Future support efforts with Temple University's College of Science and Technology will continued to be pursued; however, care will be taken to ensure that the events Career Services supports are in alignment with the goals of the Section and the ACS.

### E. Communications Committee, Liliana Suarez, [liliana.y.suarez@gmail.com](mailto:liliana.y.suarez@gmail.com)

Reported on Trademark classes 09 and 41 applications to cover downloadable journals and online journals respectively. Applications done online at a cost of \$550.00. Reported trademark attorney recommended renewing class 16 registration in support of the classes 09 and 41 applications. Cost of renewal plus penalty is \$625.00. Resolution offered and approved to renew class 16 protection at a cost of \$625.00. One nay and 0 abstentions.

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

The E&O Committee has over 30 members now.

#### Events and Status

#### 1. National Chemistry Week, Project Coordinator: Bill Smith

##### a. Received the following support materials from National:

- Chemistry Rocks! Activity Book (1000)
- NCW Balloons (25)
- NCW Holographic Multicolor Pencils (12)
- NCW Lapel Stickers roll (100)
- NCW Logo Tattoo (50)

##### b. These materials are being distributed to:

- WCC programming,
- YCC for Harry Potter Chemical Demonstrations at Chestnut Hill College,
- Bristol High School for Historic Bristol Day Chemical Demonstrations,
- Solvay Chemical in Bristol to support their NCW outreach.

c. The annual Illustrated Poem Contest for NCW is underway.

2. Harry Potter Chemistry Demonstrations

- YCC Project Coordinator: Phumvadee (Beau) Wangtrakuldee
- Saturday, October 21<sup>st</sup> at Chestnut Hill College
- YCC is main committee on this project
- Supporting YCC – project still under development.
- E&OC and YCC are scheduling a teleconference for all concerned parties.

3. Project SEED, Project Coordinator: Lee Hoffman

- One current venue – Solvay in Bristol
- Kristen Gilmore, Bristol High School, completed her internship with Solvay this summer and produced a paper entitled: *Developing Mild Body Wash Using Zein Assay and DFA 100 Dynamic Foam Analyzer*.

4. Herb Bassow Memorial Chemical Demonstrations, Project Coordinators: Mary Anne Beaston and Tom Straub  
Initial planning phase

5. Philadelphia Science Festival, Project Coordinators: James Brooks and Tom Umile

Partner Summit on Tuesday, October 17 at 3:00 PM in Musser Theater at The Franklin Institute.

D. Women Chemists Committee, PAGES<sup>TM</sup>, Kathy Shaginaw, [Katt@verizon.net](mailto:Katt@verizon.net), Submitted electronically

- Plans for the next session of PAGES<sup>TM</sup> on Saturday, November 4<sup>th</sup> are underway.
- Registrations for the 6<sup>th</sup> grade girls and for volunteers are coming in.
- More volunteers are needed.
- Visit the PAGES<sup>TM</sup> website for more details (<http://www.PAGESprogram.org/Events>).
- Thanks to Marge Matthews for doing an e-mail blast to the women in our Section.

3. Other Business

1. Cradles to Crayons Event – Upcoming, Joe Martino, [joseph.a.martino@gmail.com](mailto:joseph.a.martino@gmail.com)

The ACS Philadelphia Section has coordinated with Cradles to Crayons Philadelphia for a service event to be held at their West Conshohocken, Pennsylvania warehouse on Saturday, October 21st from 10:00 AM to 12:00 PM. An Eventbrite website has been established and publicity has commenced. Cradles to Crayons has limited this event to those 18 years of age and older. They also request registration directly with Cradles to Crayons, and our Eventbrite website provides for this. As of today, with the exception of the event coordinator from the Section, no one has registered. Cradles to Crayons has requested a two-week window if we need to cancel the event due to lack of participation. A decision will be made on the event during the upcoming week.

2. Judith Currano reports that the project to digitize *the Catalyst* is on track. Discussion.

3. Financial Services

JP Northrop, a former Philadelphia Section Officer who currently represents the firm of Edward Jones as a financial advisor, provided summary reports without recommendations on the Section's investment accounts. A discussion followed.

Vick Tortorelli and Dave Cichowicz recommended changing brokers from Schwab to Edward Jones. Transfer of the accounts was discussed.

A resolution was offered to move the accounts from Schwab to Edward Jones and it was approved with 0 nays and 0 abstentions.

Please note: Committee budgets are due ASAP. Send to Vic at [vtortorelli@ursinus.edu](mailto:vtortorelli@ursinus.edu).

There being no additional business before the Board, the meeting, on motion, was adjourned at 5:50 PM.

Respectfully submitted,

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

693<sup>rd</sup> BOARD OF DIRECTORS MEETING  
October 19, 2017  
West Chester University, West Chester, PA

Present: Michael Castaldi, David Cichowicz, Melissa Cichowicz, Deborah Cook, Jason Cross, Ella Davis, Anne DeMasi, Rick Ewing, Alan Heldon, Lee Hoffman, James Tarver, Joseph A. Martino, Christie McInnis, Craig McClure, Victor J. Tortorelli, Elizabeth Wagoner

Absent: Kathie Lysko, Judy Summers-Gates

Excused: Kathleen Thrush Shaginaw

Also present: CJ Bruner, Jim Murray, John Tierney, Judith Curano

The 693<sup>rd</sup> Board Meeting of the Philadelphia Section, ACS, was called to order at 4:05 PM. A quorum was present.

The Minutes of the September Board Meeting were approved without amendment.

0 nays and 0 abstentions

1. Officers

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

1. The November 16<sup>th</sup> Board Meeting, at Chemical Heritage Foundation, will precede the Ulliot Public Affairs Lecture.
2. The December Meeting will be held at the Yardley Inn.
3. Discussion of Section Administrator situation.

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

Reported and discussed the challenges involved in obtaining Director and Councilor candidates. Candidates for Chair-Elect are particularly challenging.

Membership requirements for Section offices was discussed and clarified. Only full members of the Section are eligible for office. Student members do not have full members status and, ACS National advises, student members are not eligible to hold office.

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

The Secretary reported that there were problems with candidate eligibilities. The Secretary suggested that verifying members hip status should be part of recruitment.

The Secretary noted that the Section Bylaws require the Nominating Committee present its list of candidates by the June Section Board Meeting. Problems associated with recruiting candidates continue to influence the election calendar. Opening recruitment earlier, in April, would provide time for a more considered process for recruiting and vetting candidates.

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

Treasurer's reports distributed by email.

On motion, the Treasurer's Report was approved with 0 nays and 0 abstentions.

E. Past Chair's Report, Rich Ewing, [ewingwre@comcast.net](mailto:ewingwre@comcast.net)

No report

2. Committees

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

1. Career Services and YCC will be hosting a Fall Networking Event on November 6<sup>th</sup> from 4 PM to 9 PM at the Fox & Hound Sports Grill in King of Prussia, PA. For the first hour, Joe Martino will present the networking module of the "Finding Your Path" workshop in his role as an ACS Career Pathways presenter. So far, nine participants have registered for the event. The remaining time will consist of networking. An Eventbrite website has been established for the event, and publicity has begun.
2. Career Services will discuss how to implement the Career Club in 2018 based on the good results obtained from the appointment format used in our last Career Club session in September 2017.

## B. Communications Committee, Liliana Suarez, [liliana.y.suarez@gmail.com](mailto:liliana.y.suarez@gmail.com)

### Communications Committee E-Report – Trademark Registration and Renewal

1. On September 27, 2017, the Section filed applications to extend the Philadelphia Section's Trademark registration and protections for the Section's Mark, "*the Catalyst*," for class 009, as a down-loadable journal, and for class 041, as an online journal.
2. Costs payable to the U.S. Patent and Trademark Office were \$550.0.
3. On September 30, 2017 the Section filed to renew its class 016, print journal, registration and protection for the Section's Mark.
  - Costs payable to the U.S. Patent and Trademark Office were \$625.0.
  - The class 016 registration was renewed, in part, to support the Section's Classes 009 and 041 applications, indicating an ongoing and expanding use of the Section's Mark.
  - Renewal of the class 016 protections is to be reviewed in about 9.5 years regarding continuing need.
  - Costs payable to the U.S. Patent and Trademark Office were \$625.00 for reregistration fee plus grace period penalty fee.
4. Maintenance of Trademark protection in classes 009 and 041 should be calendared between the 5<sup>th</sup> and 6<sup>th</sup> anniversaries of the registration.
5. Reregistration of Trademark protection in classes 009, 041 and 016 should be calendared between the 9<sup>th</sup> and 10<sup>th</sup> anniversaries of the registration.

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

1. Networking event October 25<sup>th</sup>.
2. Harry Potter Chemistry Demonstrations Day, Saturday, October 21<sup>st</sup> at Chestnut Hill College.
3. Temple Student Poster Session will be April 10<sup>th</sup>.

## D. Women Chemists Committee (PAGES™), Kathy Shaginaw, [Katt@verizon.net](mailto:Katt@verizon.net)

Submitted electronically

Plans are underway for the next session of PAGES™ on Saturday, November 4<sup>th</sup>.

Registration of volunteers and girls is about to close.

Dr. Stacey Barnaby of Dow will be the keynote speaker.

Visit the PAGES™ website for more details (<http://www.PAGESprogram.org/Events>).

My thanks to all who have volunteered and to Marge Mathews for sending out the e-mail blast to WCC members.

## E. Mid-Atlantic Region Board, Tony Addison, Sect. Liaison, [AddisonA@drexel.edu](mailto:AddisonA@drexel.edu)

Submitted electronically.

The Mid-Atlantic Region (MAR) Board met at the 2017 MARM (Mid-Atlantic Regional Meeting) in Hershey in June, and at the ACS National Meeting in Washington in August.

The 45th MARM in Hershey, PA (June 4-6) was quite successful, with *ca.* 890 registrations, 240 posters and 400 oral presentations.

Pending finalization of the 2017 results, the Mid-Atlantic Region's budget is in a healthy state, with total financial assets of over \$220,000. All MARM's held since 2003 have returned a budget surplus to the host Section and the Region.

In lieu of a 2018 MARM, there will be a Regional Awards and Chemagination event. This will be hosted by the Lehigh Valley Section, and likely held on June 2nd or 3rd.

The 2019 MARM will be held at the University of Maryland, Baltimore County, in Catonsville. This was the site of the 2012 MARM, ably helmed by Dr. Paul Smith, who will again be the event Chair (Program Co-Chairs B. Arnold & T. Tsukamoto).

The Board is highly interested in hearing from Sections who might be interested in hosting a MARM in 2020.

## 3. Other Business

### A. Cradle to Crayons Report, Joe Martino, [acsphillycareerservices@gmail.com](mailto:acsphillycareerservices@gmail.com)

1) The ACS Philadelphia Section has cancelled a service event with Cradles to Crayons, which was to be held at their West Conshohocken, Pennsylvania warehouse on Saturday, October 21<sup>st</sup> from 10:00 AM to 12:00 PM. A number of logistical reasons caused this cancellation:

- a. One participant signed up as of September 20<sup>th</sup> after 1½ months of publicity. Thirty participants were expected.
- b. The Eventbrite website was set to close registration for the event on September 20<sup>th</sup> as opposed to October 20<sup>th</sup>.
- c. A conflict existed between the Cradles to Crayons event and a Harry Potter event sponsored by Philly YCC.

- d. October's monthly e-mail notification was not released until October 8<sup>th</sup>.
  - e. Cradles to Crayons maintained a waiting list of other organizations willing to serve. Since we were unable for a variety of reasons to obtain a sufficient number of participants in a timely manner and considering that the Section is working with an external group, it was only fair to free the time slots for other organizations in a better position to help.
- 2) Moving forward, the Section should consider the following with regards to future events:
- a. Care should be taken to ensure that Eventbrite websites close sales at a date and time commensurate to the date and time of the event.
  - b. To ensure that no conflicts exist between Section events, a Section Calendar should be established where Section event coordinators can post events. It is suggested that the Section's Gmail account, which has free access to a Google Calendar, be utilized for such purposes.
  - c. The monthly e-mail to the Section should be sent at a consistent date.
  - d. Care must be taken to accommodate external organizations if the Section is coordinating an event with such an organization.

B. Delaware Valley Science Council, Alan Heldon, [alan.heldon@live.com](mailto:alan.heldon@live.com)

The DVSC receives an annual donation of \$500.00 from the Philadelphia Section in support of an annual Philadelphia Section ACS award in chemistry given by the DVSC. Due to a restructuring, the DVSC will make two rounds of awards in 2017. A resolution was made to authorize a one-time-only second donation of \$500.00. Approved. 0 nays and 0 abstentions.

There being no additional business before the Board, the meeting, on motion, was adjourned at 4:57 PM.

Respectfully submitted,

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

Note: 2018 Budgets requests are due. Send to Vic at [vtortorelli@ursinus.edu](mailto:vtortorelli@ursinus.edu)

**ResMed: Residential School on Medicinal  
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Drug-like Properties	Bioisosteres
Protein-Protein Interactions	Preclinical Toxicology
Molecular Modeling	Clinical Development
Antibody-Drug Conjugates	

*Bill Greenlee, Vince Gullo & Ron Doll – Co-organizers*

**Attendees will be staying at the Madison Hotel**

[www.drew.edu/resmed](http://www.drew.edu/resmed)  
e-mail: [resmed@drew.edu](mailto:resmed@drew.edu)  
phone: 973/408-3787; fax: 973/408-3504



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

<b>Date and Time</b>	<b>Event</b>	<b>Location/Information</b>
Monday, January 8 6 PM informal dinner 7 PM talk	Delaware Valley Mass Spectrometry Discussion Group January Meeting Dr. Nathaniel Snyder, Drexel University — <i>Bioanalytical Techniques to Study Compartmentalized Metabolism</i>	154 Mendel Hall, Villanova University, Villanova, PA. Please RSVP to Xi Qiu ( <a href="mailto:XQiu2@its.villanova.edu">XQiu2@its.villanova.edu</a> ) by 1/5/18 Additional information is available at <a href="http://www.dvmsdg.org">www.dvmsdg.org</a>
Wednesday, January 10 11 AM	Chemical Consultants Network Meeting Arve Holt — <i>Introduction to CCN &amp; How to Launch a Consulting Business</i>	Right Management, 200 Bellevue Parkway, Wilmington, DE 19089 Wilmington, DE <a href="http://chemconsultants.org/event-2737486">http://chemconsultants.org/event-2737486</a>
Thursday, January 11 10:30 AM – 2 PM	Joseph Priestley Society Symposium Yury Gogotsi (Drexel University) & M. Stanley Whittingham (SUNY Binghamton) — <i>New Energy Storage Technologies for Enabling Renewables</i>	Chemical Heritage Foundation 315 Chestnut Street Philadelphia, PA 19106 <a href="https://www.eventbrite.com/e/joseph-priestley-society-symposium-tickets-37068083636">https://www.eventbrite.com/e/joseph-priestley-society-symposium-tickets-37068083636</a>
<b>Thursday, January 18 5:30 – 8:30 PM</b>	<b>Philadelphia ACS Section Meeting Lillian Chiang (Forge Life Science) — <i>Starting a Company from Scratch: Lessons learned from a Scientist CEO</i></b>	<b>Yardley Inn 82 E. Afton Ave. Yardley, PA 19067 <a href="https://www.eventbrite.com/e/january-meeting-tickets-41350368064">https://www.eventbrite.com/e/january-meeting-tickets-41350368064</a></b>
Thursday, January 25 5:30 – 8:30 PM	Catalysis Club of Philadelphia Meeting Jing Lu (Johnson Matthey, Inc.) — <i>Siliceous Zeolite-supported Palladium Catalysts for Methane Oxidation</i>	Crowne Plaza Wilmington North 630 Naamans Road Claymont, DE 19703 <a href="http://catalysisclubphilly.org/">http://catalysisclubphilly.org/</a>
Thursday, January 25 6:30 PM Social Hour 7:30 PM Seminar	Philadelphia Organic Chemists' Club Women in Chemistry Lecture, Ruth R. Wexler (Bristol-Myers Squibb) — <i>Adventures in the Discovery of Novel Oral Anticoagulants: New Frontiers and Lessons Learned</i>	Chemistry Building - University of Pennsylvania 34th and Spruce Streets Philadelphia, PA <a href="http://www.pocclub.org/">http://www.pocclub.org/</a>
<b>Thursday, February 15 6 – 8 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 February Catalyst for details</b>
<b>Please check the individual websites for additional updated information</b>		