

the Catalyst



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

March 2016
Volume 101, No. 3



– Joel Perlish photo

**2015 Section Award Winner
Dr. Donna Huryn with Deborah Cook and
Rick Ewing**

HIGHLIGHTS

Comments From the Chair	41
Speaker's Abstract and Biography	43
2015 ACS Fellow Dr. Steven Fleming	46
MARM Chemagination Contest	50

ADVANCE NOTICE

APRIL MEETING

**Thursday, April 21, 2016
Undergraduate Student Awards**

**McCall Golf and Country Club
Highland Park, PA**

See the APRIL issue of *the Catalyst* for details,
call the Section Office at (215) 382-1589 or email PhilaACS@aol.com.

STAFF

EDITOR-IN-CHIEF

Robin S. Davis

EDITORS

News Atoms: Alan Warren

Proof Editors: Antony Addison
Georgia Arbuckle-Keil
Kendra Luther
Corrie Kuniyoshi
Marge Matthews
Liliana Suarez
Alan Warren

ADVERTISING MANAGER

Vince Gale

COMMUNICATIONS COMMITTEE

Chair: Marge Matthews

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

CONTENTS

April Advance Notice	39
Comments From The Chair	41
March Meeting.....	42
Speaker's Abstract and Biography.....	43
News Atoms	44
Joseph Priestley Society Luncheon	45
2015 ACS Fellow Dr. Steven A. Fleming	46
Call for Pre-College Teacher Nominations.....	47
Call for Undergraduate Teacher Nominations.....	48
Nominations Invited, 2016 Section Award	49
MARM 2016 Chemagination Competition.....	50
Chemical Consultants Network.....	51
Virtual Career Club	52
2016 Delaware Membrane Protein Symposium.....	53
November 2015 Board of Directors' Meeting	53
Volunteer of the Year: Dr. Thomas S. Straub.....	56
Photo of 2015 Section Award Winner	56
Directory of Services	57
2016 Calendar	58

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

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

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

Comments From The Chair



Dr. Rick Ewing

As I write this column, the graduate poster session at the University of the Sciences is yet to occur, so I will comment on that event in my next column. The March 3rd meeting is the Edgar Fahs Smith lecture, started in 1929, truly one of the most distinguished lecture-ships in the Section. Edgar Fahs Smith (1854-1928), a professor of chemistry and the 13th provost at the University of Pennsylvania, had a deep interest in the history of chemistry. He amassed a large collection of papers, photographs, chemical apparatus, books and biographies which are mostly of the pre-1850 era of chemistry. His

foresight and vision resulted in the Edgar Fahs Smith Collection in the History of Chemistry at the University of Pennsylvania which can be viewed in person or at:

<http://sceti.library.upenn.edu/sceti/smith/>. The web-site allows for views of portraits, apparatus and laboratories. The Edgar Fahs Smith Memorial Collection has been designated a National Historic Chemical Landmark by the American Chemical Society. The plaque presented on March 16, 2000 reads:

The Edgar Fahs Smith Memorial Collection in the History of Chemistry is one of the oldest, most diverse, and most significant collections of chemistry books, manuscripts, and images in the United States. During more than 40 years at the University of Pennsylvania, Edgar Fahs Smith (1854-1928) shared his great interest in the culture and history of chemistry through teaching, lecturing and writing. The collection began as Smith's personal library and at his death consisted of some 3000 printed volumes, 600 manuscripts, and 1800 images; since then it has grown to more than 15,000 volumes, 100 linear feet of manuscripts, and 4000 images. The collection remains an essential resource for historians and chemists alike.

The collection continues to grow today through benefactors and through the Smith Collection endowments, established by Smith's widow, Margie Gruel Smith.

The Edgar Fahs Smith lecturers (<https://www.chem.upenn.edu/content/edgar-fahs-smith-lecture>) are a remarkable list of eminent and distinguished scientists. Among the past speakers are remarkably 19 Nobel laureates; Harold Urey, Theodor (The) Svedberg, Wendell M. Stanley, Melvin Calvin, Linus Pauling, Peter J.W. Debye, Vincent du Vigneaud, Robert B. Woodward, Glenn T. Seaborg, Paul J. Flory, Herbert C. Brown, Henry Taube, Elias J. Corey, F. Sherwood Rowland, George Porter, Rudolf A. Marcus, Richard R. Ernst, Robert H. Grubbs, and K. Barry Sharpless. This year's lecturer is Professor George Schatz, Northwestern, whose research page can be accessed at <http://www.chemistry.northwestern.edu/people/core-faculty/profiles/george-schatz.html>. Professor Schatz's research has employed theoretical and computational methods to study problems in nanotechnology, properties of materials, macromolecular structures and dynamics, molecular self-assembly, optics, materials physics and biophysics, as well as the study of the reactions of molecules at interfaces. I encourage all to attend that are able to be part of the history of this distinguished lecture series.

MARCH MEETING

THE PHILADELPHIA SECTION,
AMERICAN CHEMICAL SOCIETY
AND
THE DEPARTMENT OF CHEMISTRY, UNIVERSITY OF PENNSYLVANIA

PRESENT THE

2016 EDGAR FAHS SMITH MEMORIAL LECTURE

Thursday, March 3, 2016

Dr. George C. Schatz

Professor of Chemical and Biological Engineering, and,
Charles E. and Emma H. Morrison Professor of Chemistry at Northwestern University

Silver and Gold Nanoparticles: New Directions for Theory

Carolyn Hoff Lynch Lecture Hall
Chemistry Building, University of Pennsylvania
231 South 34th Street, Philadelphia, PA 19104

Reception

5:00-6:00 PM in the Nobel Hall of Fame, Chemistry Building

The reception and lecture are free

Dinner following the lecture at Penne Restaurant, 3611 Walnut Street, Philadelphia.
Dinner Cost: \$40; Students with reservations and ID: \$20.

Reservations should be made by calling Ms. Daria Walsh at the Section Office, (215) 382-1589, by 5:00 PM on Tuesday, March 1, 2016. Cancellations, if necessary, cannot be accepted after NOON on Wednesday, March 2, 2016. **UNCANCELLED RESERVATIONS WILL BE BILLED.**

Parking is available in the Drexel University garage on Ludlow Street (from Market Street go south on 34th; it's the first left) and a University of Pennsylvania garage on 34th Street just past Ludlow. Metered street parking may also be available.

The Board of Directors will meet at 4:00 PM on the first floor of the Chemistry Building, in the new Faculty Conference Room outside the Main Office, Room 117, University of Pennsylvania.

SPEAKER'S ABSTRACT AND BIOGRAPHY

Dr. George C. Schatz

Professor of Chemical and Biological Engineering, and,
Charles E. and Emma H. Morrison Professor of Chemistry at Northwestern University

Silver and Gold Nanoparticles: New Directions for Theory



Abstract: Silver and gold nanoparticles have a history that dates to the Roman empire and before, as well as detailed work by Michael Faraday in the 1840s. However they have been given new life (and applications) in the last 40 years through a number of advances in nanoscience. This talk will provide an overview of these advances, including new methods for making them, new spectroscopic techniques for measuring their properties and the properties of molecules near the nanoparticle surfaces, and new optical applications in sensing, photochemistry, photonic materials, solar cells and optoelectronic devices which continue to drive research in this field. An emphasis in this talk will be on the use of theory to understand the optical properties of these materials. The cornerstone of this work is compu-

tational electromagnetics, which provides the ability to solve Maxwell's equations exactly for a given nanoparticle structure and with assumed dielectric functions. We will also describe the combination of classical electromagnetics with quantum mechanics, and its use in understanding the fundamentals of plasmon excitation as well as surface enhanced Raman spectroscopy.

Biography: Dr. George C. Schatz is the Morrison Professor of Chemistry at Northwestern University. He received his undergraduate degree at Clarkson University and PhD at Caltech. He was a postdoc at MIT, and has been at Northwestern since 1976.

Dr. Schatz is a member of the National Academy of Sciences, and he has been Editor-in-Chief of the *Journal of Physical Chemistry* since 2005.

Dr. Schatz is a theoretician who studies the optical, structural and thermal properties of nanomaterials, including plasmonic nanoparticles, DNA and peptide nanostructures, and carbon-based materials, with applications in chemical and biological sensing, electronic and biological materials, and solar energy.

NEWS ATOMS—*Alan Warren*

Eric J. Shelter of the University of Pennsylvania will receive the Harry Gray award for creative work in inorganic chemistry by a young investigator at the San Diego meeting.

DEATHS

Howard G. Stroble, retired chemist, January 16, 2016 at 87. He was employed as a research chemist at National Cash Register and obtained patents in microencapsulation technology that led to carbonless copy paper and scratch-and-sniff. He later worked for Monarch Marking Systems.

Robert A. Klinger, chemist and amateur historian, January 18th at 70. He worked for two years as a research chemist on non-stick coatings at DuPont and then moved to National Medical Services. There he developed a method to detect THC (marijuana) in hair. While at National Medical he also helped evaluate the remains of sailors aboard the Civil War submarine *H. L. Hunley* when it was raised to the surface in 2000.

Virginia W. Fegley, retired chemist, January 26th at 90. She was employed at Rohm and Haas, and later became a community advocate for people with mental disabilities.

*ResMed: Residential School on Medicinal
Chemistry and Biology in Drug Discovery*
June 5-10, 2016
Wyndham, Florham Park, NJ

This graduate level course concentrates on the fundamentals that are useful in drug discovery spanning initial target assay evaluation through clinical development. Several case histories of recent successful drug development programs will also be presented. The five-day program covers:

Principles of Med Chem	DMPK
Cheminformatics	Toxicophores
Lead ID & Optimization	GPCRs
Epigenetics	Kinase Inhibitors
Fragment-based Drug Design	Ion Channels
Structure-based Drug Design	Enzyme Inhibitors
Drug-like Properties	Bioisosteres
Plasma Protein Binding	Preclinical Tox
Molecular Modeling	Clinical Dev
Protein-Protein Interactions	Case Histories

W. Greenlee, V. Gullo and R. Doll –Co-organizers

For more information and application forms:

www.drew.edu/resmed

e-mail: resmed@drew.edu

phone: 973/408-3787; fax: 973/408-3504



It Pays to Be Tacky: Lessons Learned in Growing a Small Specialty Chemical Company

David DeVore

President, Functional Products Inc.



Background

Functional Products Inc. of Macedonia, Ohio, formulates, blends, and manufactures lubricant additives to improve the performance of oil, grease, and bio-based fluids operating under various conditions. The company offers an extensive range of viscosity modifiers, tackifiers, way-lube packages, and other lubricant additives to meet customer needs.

David DeVore will share his successes and challenges in running a small chemical company over the past twelve years with the hope that others may be emboldened or cautioned in launching their own enterprise. It will be a whirlwind talk, touching on many different aspects of leadership in small-business enterprise, such as how to find companies to acquire, how to finance companies, hiring good people, firing underperformers, setting objectives, competing against multibillion-dollar firms, and selling both to the world's largest firms and to "two-man shops." The message is simple: lead technically, kill for customers, and do it every day.

11:30 AM – 12:15 PM

Networking Reception

12:15 PM – 1:00 PM

Luncheon

1:00 PM – 2:00 PM

Program

Chemical Heritage Foundation/315 Chestnut Street/Philadelphia, PA 19106

Tel.: 215-925-2222/Fax: 215-925-1954/www.chemheritage.org

2015 ACS Fellow Dr. Steven A. Fleming

Dr. Steven A. Fleming was elected as an ACS Fellow on the basis of his dedication to science and volunteer work for the American Chemical Society. Steve received a BS in chemistry from the University of Utah (1978) and a PhD in Organic Chemistry from the University of Wisconsin (1984). He was a NIH Postdoctoral Fellow at Colorado State University (1984-1986).

Steve's professional career began in 1986 when he joined Brigham Young University (BYU) as an Assistant Professor of Chemistry. In 1992 he was promoted to Associate Professor and in 2000 to full Professor. In 2008 he moved to Temple University as a Professor of Teaching. He is the unofficial coordinator of organic chemistry instruction at Temple. Steve is the co-author of an organic chemistry textbook (used at approximately 35 schools), co-author of ACS organic exams, and primary author of organic reaction animations and bio-organic reaction animations.

Steve's scholastic honors include: Dean's Distinguished Teaching Award at Temple (2011); University Maeser Teaching Award (highest teaching award at BYU; 2002); Outstanding Achievement in Creative Works at BYU (2001); Student Award for Teaching (2001); College Teaching Award (1998); and Department Teaching Award (1995).

Some of Steve's current and past professional activities are: member of the American Chemical Society (1978-present), member of the Inter-American Photochemical Society (1991-present), member of Sigma Xi (1982-present), Chair of the Organic Division at BYU Chemistry Department (1995-1997), and Chair of the Organic & Biomolecular Division at the BYU Chemistry Department (2006-2008).

While working at BYU Steve was very active in the American Chemical Society at both the local and national levels. He served as Chair for the Joint 2008 NORM/RMRM ACS Meeting (2006-2008); Chair of the National Meetings & Expositions Committee (2004-2005); Chair of the ACS Meetings & Expositions Site Selection Subcommittee (2000-2003); Councilor for the Central Utah Local Section (1991-2008); National Chemistry Week Poster Session organizer (1990-2007); co-organizer for the Park City Regional Meeting (1995); and Chair of the Central Utah Local Section (1989).

Once Steve moved to the Philadelphia area he became active in the Philadelphia Local Section. He served as Past-Chair (2015), Chair (2014), Chair-Elect (2013), Chair of the Awards Committee (2013), and on the Board of Directors (2012-2013).

The above is just a sampling of various awards and dedicated service to ACS and indicates why Steve was chosen as one of the 2015 ACS Fellows.

CALL FOR NOMINATIONS



**The 25th Annual
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 from the Delaware Valley 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 2016 will be accepted until Tuesday, March 15, 2016. The nomination package should consist of a letter of nomination, the nominee's resume and at least two letters of recommendation. Other supporting information, such as students' comments, is welcome. However, the total nomination package should not exceed 30 pages. The nomination package may be emailed to PhilaACS@aol.com or a copy of the nomination materials may be mailed to:

Deborah Cook
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@aol.com

Award recipients will be honored at our May 2016 Section meeting with a certificate and an honorarium.

CALL FOR NOMINATIONS



**The 14th Annual
Philadelphia Section, American Chemical Society
AWARD FOR EXCELLENCE IN UNDERGRADUATE TEACHING IN
CHEMICAL SCIENCES**

The Philadelphia Section of the American Chemical Society will honor an outstanding undergraduate teacher from the Delaware Valley 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 2016 will be accepted until Tuesday, March 15, 2016. The nomination should consist of a letter of nomination, the nominee's resume and at least two letters of recommendation. Other supporting information, such as students' comments, is welcome. However, the total nomination package should not exceed 30 pages. The nomination package may be emailed to PhilaACS@aol.com or the nomination materials may be mailed to:

Deborah Cook
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@aol.com

The award recipient will be honored at our May 2016 Section meeting with an honorarium and a plaque.



NOMINATIONS INVITED

FOR THE 2016 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: Ahmed Abdel-Magid (Therachem Research Medilab), Marisa Kozlowski (University of Pennsylvania), 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, presentations 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. Contact the Office Administrator, Ms. Daria Walsh at:

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

The completed packet of nomination materials may be emailed to PhilaACS@aol.com or mailed by **April 1st** to Chair, Awards Committee, at the Section Office address above.

MARM 2016 CHEMAGINATION COMPETITION

The 2016 ACS Middle Atlantic Regional Chemagination Competition will be held during the 2016 MARM at College of Mount Saint Vincent, Riverdale, NY on Saturday, June 11th from 12:00 PM to 5:00 PM. It will consist of a poster session and judging, followed by a presentation or other activity for the students and the award ceremony.

We invite your local section to participate in this 2016 MARM Chemagination, the first to take place at a MARM since 2012.

For this event, high school students are asked to imagine that they are living 25 years in the future and have been invited to write an article for ChemMatters, a magazine for high school students that focuses on the role of chemistry in everyday life. Students are also asked to design the magazine cover. The subject of the article is: "Describe a recent breakthrough or innovation in chemistry (and/or its applications) that has improved the quality of people's lives today." The article must be written to fit in one of four categories: Alternative Energy, Environment, Medicine/Health, or New Materials.

First place category winners from Local ACS Sections' Chemagination contests are eligible to participate. If a first place winning team chooses not to participate, a second place team can serve as alternate. In addition, if a local section is not able to hold their own Chemagination competition, they can choose to submit one team per category directly to the MARM contest using an alternate selection process.

Refer to the [2016 MARM Chemagination Contest Description & Rules](#) for more details. For information on past MARM Chemagination contests see:

<http://marmacs.org/2012/Chemagination.html>.

Chemagination is a great learning experience for students. In addition to increasing their knowledge of science and chemistry, they can improve their creative, teamwork and public speaking skills. Such skills will serve them well in their future careers.

Isn't it time you offered your high school students a chance to exercise their Chemagination? If you have any questions about organizing a local section competition please contact us; we would be happy to help you get your own Chemagination started.

Confirm your intent to take part in the 2016 MARM Chemagination Competition prior to March 1, 2016 and include the date of your local contest, if possible. Email this confirmation to Louise Lawter at louise.lawter@gmail.com and to obtain more information and important due dates.



CHEMICAL CONSULTANTS NETWORK MARCH 9, 2016 Meeting

CECON LLC: A Broker for Science and Engineering Consultants

Michael C. Fisher

[Click here to register](#)

Date & Time: Wednesday, March 9, at The Cynwyd Club, Bala Cynwyd, PA; Networking, 5:30 PM; Dinner, 6:30 PM; Talk and Business Session, 7:30 PM.

Abstract: CECON LLC is a wholly owned subsidiary of Becht Engineering Co., Inc. CECON manages a network of science and engineering consultants who provide various technical services to clients ranging from Fortune 100 companies to start-ups and law firms. CECON (www.cecon.com) was founded in 1985 and has a network of consultants located throughout the U.S. and 21 foreign countries.

Mike will discuss the CECON business: the types of leads that CECON receives, the market sectors and current trends he sees, and a sampling of recent jobs that CECON enjoyed. He will also offer suggestions for resume upgrades and best practices for active consultants.

Biography: Michael C. Fisher is the Group Manager for CECON. Mike has over thirty years of marketing, sales, and operational experience with large corporations and early-stage companies. He was formerly with Cabot Corporation, a \$1.7B specialty chemicals company, where he led sales, marketing and strategic planning for a \$350 million division. He has held interim positions of R&D Director and CFO and has held board positions on Japanese and German joint ventures. Before Cabot, he was with DuPont for several years with roles in engineering, polymers business development, and management.

Mike has a BS in Mechanical Engineering from Carnegie Mellon and an MBA from Rensselaer Polytechnic Institute. He serves as a mentor for Temple University's Innovation & Entrepreneurship Institute and is a member of the Greater Philadelphia Senior Executives Group.

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

Reservation: [Click here to register to attend the event](#), or e-mail CCNReservations@aol.com or call the ACS office at 215-382-1589 (leave message on voicemail if necessary). Fee, including food and beverages (wine, beer & sodas), is \$30 by reservation/cancellation deadline: Saturday, March 5th. Dietary restrictions accommodated on a limited basis. There is no charge for talk only, but registration is suggested using contact information above.

THE ACS PHILADELPHIA SECTION

Presents

The Virtual Career Club

With ACS Career Consultant Joe Martino

Tuesday, April 19, 2016

7:00 PM – 9:00 PM

Right on your phone or internet-connected device!

Do any of these situations apply to you?

- I'm finishing my PhD in organic chemistry, but now I want to become a patent lawyer. How do I go about discussing this with my primary investigator?
- I just lost my job in a corporate restructuring and haven't written a resume in over 15 years. Where do I start?
- I've been working at my company for over 10 years and feel that I deserve a pay raise. How do I negotiate this with my employer?
- I'm a chemist, and my career situation isn't on this list. Who can help me?

Whatever your situation, the ACS Philadelphia Section's Career Services Committee is here to help! ACS Career Consultant Joe Martino will moderate this meeting to allow you to discuss your career concerns so that you may get the most out of your career. Bring your resume or cover letter if you like or just bring only your ideas and questions – all career concerns are fair topics for discussion!

The Career Club is free and open to all chemists, regardless of employment or student status.

Details on accessing the Virtual Career Club will be e-mailed to all participants who register for participation on this website 24 hours before the Career Club begins.

For further information and to register to participate in the Virtual Career Club, please visit <https://acsphillyvirtualcareerclub2.eventbrite.com>.

2016 Delaware Membrane Protein Symposium

Monday, April 18, 2016 at 8:00 AM to 5:15 PM

University of Delaware

Clayton Hall

100 David Hollowell Drive

Newark, DE 19716

The Delaware Membrane Protein Symposium is supported by NIH-COBRE program on Membrane Protein Production and Characterization. The symposium will bring together people from a diverse range of interests and techniques, but who all share an interest in exploring the functions of membranes and their components. In addition to the invited lectures by renowned experts in membrane biophysics and biology, the symposium includes poster presentations by students and postdocs. Register NOW.

Website: <http://sites.udel.edu/cobre/symposia/2016-symposium/>

Cost Free - Registration required

https://docs.google.com/a/udel.edu/forms/d/11CfXbV0UxZH5VfsvXPka_b9TiNeqHMPP8Bl-tiQce_s/viewform

Contact Email: khalberg@udel.edu

Contact Name: Kristi Halberg

Contact Phone: (302) 831-4500

674th BOARD OF DIRECTORS' MEETING

Tuesday, November 17, 2015

Chemical Heritage Foundation, Philadelphia, PA

Present: Melissa Betz Cichowicz, Deborah H. Cook, Ella Davis, Rick Ewing, Steven Fleming, Alan R. Heldon, Christine McInnis, Kathleen Shaginaw, William Smith, Thomas S. Straub, Judy Summers-Gates, and Victor Tortorelli

Excused: Anne DeMasi

Absent: Judith Cohen, Douglas Hausner and John (J.P.) Northrop, Cynthia Palmer, James Tarver and Denise Thomas

Also present: Daria Walsh, Joe Martino, Ivona Sasimovich, Mike Brignone, and Tom Umile

The 674th Board Meeting of the Philadelphia Section, ACS, was called to order at 4:01 PM. A quorum was not present.

1. Minutes

Submission and approval of the Minutes of the September Board of Directors Meeting was tabled until a quorum became available.

2. Committees

A. Career Services, Joe Martino, acsphillycareerservices@gmail.com

1) The “Preparing for Life After Graduate School” (PFLAGS) workshop was a success with 40 participants attending a three day workshop at Temple University. Joe Martino thanks ACS Career Consultant Lori Spangler and Steve Fleming and Graham Dobereiner, both of Temple University, for organizing the event. ACS National covered the cost of materials for the event as well as the travel expenses of the career consultants, including a third ACS Career Consultant in addition to Lori Spangler and Joe Martino to assist with the final day of career consulting. Two items for future reference are of note. First, the need for a third career consultant for this event – who travelled a distance to participate – demonstrates a need for a third, ACS Career Consultant to be stationed in the territory of the ACS Philadelphia Section. Second, when Career Services provided partial funding for the workshop (Temple University and Drexel University supplied the remainder), ACS National limited their contribution only to travel expenses for ACS Career Consultants and printing of workshop materials. Career Services will consider this funding precedent for any future PFLAGS workshops that the Section hosts.

2) The Virtual Career Club held on October 28th and moderated by ACS Career Consultant Joe Martino was a failure with zero participants. This failure stemmed from a now- fully resolved miscommunication between the Section Board and Career Services regarding the role of the new Section Outreach Committees. Career Services regrets and apologizes for its part in this miscommunication and takes full responsibility for its share of the failure of the event. Moving forward, another virtual career club will take place in early 2016 with certain and established methods of publicity.

3) The success of the PFLAGS workshop in comparison to the Virtual Career Club as well as prior Career Services programming demonstrates the need to market Career Services programming to individual entities in industry and academia. Such marketing would improve the future outlook of Career Services as opposed to the current method of establishing biyearly workshops based on trends established by ACS National. Joe Martino again reiterates to the Section Board that the assistance of our outreach committees to harvest their networks to find leads for Career Services programming is critical. Though Career Services is fully competent and capable of doing this on its own and will do its share of this work, utilizing the resources of the Section Board would help to make this process more efficient and to better guarantee the future health of Career Services.

B. Education and Community Outreach Committee, Bill Smith

Committee’s first meeting was November 4th. Committee has 16 volunteers to date.

Working on National Chemistry Week

Working on Chemagination

Work progressing on a monthly calendar of repeating Section events

Committee is developing a more robust list of schools in the Section

A quorum now being present, the Minutes of the September Board of Directors was approved without amendment, and with no nays or abstentions.

C. Finance and Budget Committee, Vic Tortorelli, vtortorelli@ursinus.edu

A preliminary draft of the Section’s 2016 Budget was submitted for review by the Board.

Income projections used in this draft of the budget are approximations.

The Section’s Budget is being restructured to be more consistent with the structure used by National.

There was considerable discussion with review of individual line items.

A revised 2016 draft will be submitted at the December Meeting.

Merck donations will be reviewed and a report prepared.

D. Government Affairs Committee, Alan Heldon, alan.heldon@live.com

Pennsylvania’s state budget remains unresolved after 5+ months. However, the upcoming holidays and next year’s legislative elections require that the budget impasse be resolved. Promises of a resolution by Thanksgiving have been made. As desirable as a quick resolution is, there are dangers that good programs will not be funded in the rush to find a bottom line acceptable to all parties. Our most effective response is a letter (by email and snail mail) to the legislators bringing to their attention the importance of adequate and sustained STEM education funding. A draft, vetted by Washington, has been circulated to the Board.

After discussion, and on motion, the proposed letter from the Section was approved with no nays or abstentions.

E. National Meeting Ad Hoc Committee, Anne DeMasi

No report. The committee is about to meet.

F. Tellers Committee, Tom Straub

A very low member participation in this election was noted. 463 members voted.

For Chair-Elect: D. Cook received 220 votes, C. McInnis received 216 votes.

The vote totals for Officers, Directors and Councilors were reported.

The low voter turnout was discussed.

On Motion, the Teller's Report was accepted with no nays or abstentions.

As D. Cook, a Director, has been elected Chair-Elect, her Director's seat becomes vacant.

On motion, this vacancy was filled by E. Wagner, the first "runner up" in the election of Directors. The motion received no nays or abstentions.

G. Women in Chemistry Committee, Kathleen Shaginaw, Katt@verizon.net

The PAGES™ Mini-conference on November 7, 2015, at Chestnut Hill College went well.

The next PAGES™ event will be April 16, 2016, at Chestnut Hill College.

H. Younger Chemists Committee, Christine McInnis, CMcInnis@dow.com

1) Quizzo – November 10, 2015 (University City) program went well.

2) The Program in a Box on Lab Safety at Temple University, October 20th, went well.

3) The February Poster Session (U.Sci.) needs to be rescheduled.

4) The YCC is working on ACS National Meeting events for August 2016.

5) Three YCC members - Ivona Sasimovich, Mike Brignone, and Tom Umile - presented a review of the YCC's use of social media to communicate with its membership. The presentation began with an overview of social media - what services are available and what are their specialties, and how will they be useful to communicate with members. Current YCC procedures were reviewed and discussed.

3. Officers

A. Chair, Bill Smith, willsmith2@aol.com.

Annual reports from committee chairs are due.

B. Chair-Elect, Rick Ewing, ewingwre@comcast.net

The Ulliot committee has extended an invitation to a speaker for the Ulliot Lecture. Note: Post meeting, the speaker has accepted.

C. Secretary, Alan Heldon, alan.heldon@live.com.

No report

D. Treasurer, D. Cichowicz, cichowic@lasalle.edu

No report

4. Other Business

i. Volunteer of the Year Award.

No nominations have been received. The Executive Committee is asked for a recommendation.

ii. Committee on Community Activities Grant, Christine McInnis

An application was submitted to fund an outreach program on "Chemistry for Cooking." Up to \$500 is available.

iii. There was brief discussion of the status of Ocean County's affiliation. R. Ewing will inquire and report at the December meeting.

iv. The Section's December meeting will be on December 9th at Otto's on Easton Road in Horsham.

v. The January Meeting will be January 21, 2016 at the University of Pennsylvania for presentation of the Section Award.

There being no additional business before the Board, the meeting was adjourned at 5:38 PM.

Respectfully submitted,

Alan R. Heldon, Secretary, alan.heldon@live.com

DR. THOMAS S. STRAUB

2016 Local Section Outreach Volunteer of the Year Award for the Philadelphia Local Section



– Joel Perlish photo

After graduating from Princeton University in 1963 with an AB in Chemistry, Tom obtained an MS at University of Minnesota with M.M. Kreevoy, a PhD at Illinois Institute of Technology with A.J. Kresge, and held a postdoctoral position with Myron Bender at Northwestern University. Tom came to Philadelphia in 1972 to teach at La Salle University where he continues to introduce students to organic and biochemistry. Tom served as Chair of the Department of Chemistry and Biochemistry for 20 years, received the Lindback Award for Outstanding teaching in 1989, and still attempts to pursue his research interests.

Tom became active in the Philadelphia Section when National Chemistry Day, now National Chemistry Week, was introduced in 1989. He directed a poster contest for the Section from 1989 to 2005, served on the Education Committee beginning in 1989 and has been Chair since 1994. The duties assumed included coordinator for the Philadelphia Section of the National Chemistry Olympiad and organizer, moderator and demonstrator for the Herb Bassow Memorial Lecture, “Chemistry Demonstrations for Children of all Ages,” a series of demonstrations and activities conducted on area college campuses each December. Tom has also been a member of the Philadelphia Section Board of Directors since 1996, served as Section Chair in 1997, served as Councilor from 1998 to 2003 and has been involved in Section elections since 1988, serving as chair of the Tellers’ Committee since 2002. For these activities he received the Philadelphia Section Service Award in 1997 and the Ulliot Award in 1999.

Tom and his wife Carol live in Ardmore where Tom is a member of the Merion Concert Band. Their pride and joy are the three daughters and five grandchildren they share.

2015 Section Award

Deborah Cook (l.), Chair-Elect of the Philadelphia Section, Amos Smith, Monell Chemical Senses Center and University of Pennsylvania, and Rick Ewing, Chair of the Philadelphia Section with the 2015 Section Award winner, Dr. Donna Huryn, University of Pennsylvania.

– Joel Perlish photo



DIRECTORY OF SERVICES

VOLUNTEER

Committees seeking team members

- ✓ Career Services
- ✓ Chemical Health & Safety
- ✓ Diversity
- ✓ Industrial Relations
- ✓ Liaison
- ✓ Membership
- ✓ Planning
- ✓ Public Relations
- ✓ Social
- ✓ Student Affiliate Mentor
- ✓ Awards
- ✓ Continuing Education
- ✓ National Chemistry Week
- ✓ Program
- ✓ Communications
- ✓ Tellers
- ✓ Web Page
- ✓ Younger Chemists
- ✓ Women Chemists

Contact the Section Office at PhilACS@aol.com or (215) 382-1589.

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

Custom Synthesis of Chemicals

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

Tyger Scientific Inc.

324 Stokes Ave. Ewing, NJ 08638

Phone: 888-329-8990

Email: sales@tygersci.com

TELL OUR ADVERTISERS

Membership surveys show that you want more articles in our newsletter. If you tell our advertisers that you saw their ad here, they will provide more financial support and this will allow us to add more articles.

NMRService 500MHz

*Mass

*Elemental Analysis

NuMega Resonance Labs

numegalabs.com P- 858-793-6057

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

or by calling Ms.Daria Walsh at the Philadelphia Section Office (215) 382-1589.



Micron Analytical Services

COMPLETE MATERIALS CHARACTERIZATION
MORPHOLOGY CHEMISTRY STRUCTURE

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

Registered with FDA • DEA GMP/GLP Compliant

3815 Lancaster Pike Wilmington DE. 19805

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

E-Mail micronanalytical@compuserve.com

Web Page: www.micronanalytical.com



Robertson Microlit Laboratories

Where speed and accuracy are elemental

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

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

FTIR, UV/VIS Spectroscopy

Ion Chromatography

GC-MS

Polarimetry

DSC, TGA, melting point

KF Aquametry, Titrimetry

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

www.robertson-microlit.com • email: results@robertson-microlit.com

Rapid Results • Quality • Accuracy • Competitive Pricing

ADVERTISING INDEX

ACS	57
Drew University	44
Micron Inc.	57
NuMega Resonance Labs, Inc.	57
Robertson Microlit Labs	57
Tyger Scientific, Inc.	57

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

email: vincegale@mboservices.net

PHILADELPHIA SECTION, ACS CURRENT CALENDAR OF ACTIVITIES

Date	Event	Location
Thursday, March 3	Edgar Fahs Smith Lecturer Dr. George C. Schatz, Northwestern University: <i>Silver and Gold Nanoparticles: New Directions for Theory</i>	University of Pennsylvania Philadelphia, PA https://www.chem.upenn.edu/event/2016/03/edgar-fahs-smith-lecture-george-schatz-northwestern
Friday, March 4	First Friday: <i>Sounds Good: How the Science of Sound Reproduction Changed Imagination</i>	Chemical Heritage Foundation Philadelphia, PA 19106 http://www.chemheritage.org/visit/events/public-events/2016-03-04-ff.aspx
Thursday, March 9	Chemical Consultants Network: Michael C. Fisher, Group Manager for CECON, LLC: A Broker for Science and Engineering Consultants	The Cynwyd Club Bala Cynwyd, PA www.chemconsultants.org
Thursday, March 10	Joseph Priestley Society: David DeVore: <i>It Pays to Be Tacky: Lessons Learned in Growing a Small Specialty Chemical Company</i>	Chemical Heritage Foundation Philadelphia, PA 19106 http://www.chemheritage.org/visit/events/public-events/2016-03-10-jps.aspx
March 13-17	251 st ACS Spring National Meeting: <i>Computers in Chemistry</i>	San Diego, CA http://www.acs.org/content/acs/en/meetings/spring-2016.html?cid=home_meetings
Tuesday, March 15	Chromatography Forum of the Delaware Valley: <i>Kennedy: UHPLC-MS Based Metabolomics for Brain and Endocrine Systems</i>	Crowne Plaza Wilmington North Claymont, DE http://www.cfdv.org/meeting/kennedy-uhplc-ms-based-metabolomics-brain-and-endocrine-systems
Saturday, April 16	Philadelphia Girls Enjoying Science Program for Sixth Grade Girls (PAGES TM)	Chestnut Hill College Philadelphia, PA http://pagesprogram.org/events/
Monday, April 18	2016 Delaware Membrane Protein Symposium	University of Delaware Newark, DE 19716 http://sites.udel.edu/cobre/symposia/2016-symposium/
Tuesday, April 19	Virtual Career Club with ACS Career Consultant Joe Martino	Internet Register at https://www.eventbrite.com/e/virtual-career-club-tickets-20811519816
Thursday, April 21	Undergraduate Student Awards	TBA
May 2016	Philadelphia Section Teaching Awards	TBA
June 2016	Luncheon Honoring our Fifty-year Members	TBA
June 9-12	44 th MARM: <i>Chemistry, Past, Present and Future</i>	The College of Mount Saint Vincent Riverdale, NY www.marmacs.org

251st ACS Spring National Meeting, March 13-17, 2016, San Diego, CA
252nd ACS Fall National Meeting, August 21-25, 2016, Philadelphia, PA