

the Catalyst



ACS
Chemistry for Life™

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

September 2015
Volume 100, No. 7



**Fun with Fish
at Adventure Aquarium in June**

HIGHLIGHTS

Chair's Comments	119
News Atoms	121
2010 ACS Fellow Dr. Hai-Lung Dai	123
Book Review	131
Calendar	133

ADVANCE NOTICE

OCTOBER MEETING

TBA

See the OCTOBER 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: 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

Comments From The Chair	119
September Meeting	120
News Atoms	121
2010 ACS Fellow Dr. Hai-Lung Dai	123
2016 Slate of Candidates	124
From the Spring Council Meeting	125
Earth Day Illustrated Poem Contest Winner	126
ACES October Program	127
National Chemistry Week	127
Photo of 50- and 60-Year Members in June	127
Chemical Consultants Network	128
April 2015 Board of Directors' Meeting	129
Book Review	131
Directory of Services	132
2015 Current Calendar of Activities	133

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@mboservices.net.

Comments From The Chair



Dr. Bill Smith

During the period of the late Roman Republic a poet, Gaius Valerius Catullus, wrote an epic poem, *Ave Atque Vale*, which translates as “Hail and Farewell.” There is a tradition in the United States Army whereby those coming to and departing from an organization are celebrated with a “Hail and Farewell” party. This is a time to honor those who have departed the organization and thank them for their service. At the same time it is a welcome to those who are joining the organization and introduces them to its special history

and traditions. This celebration is intended to build organizational camaraderie and supports a sense of continuity through a time of change.

September’s meeting will be a Hail and Farewell. We will be saying farewell to Libby Harper who has served the Section as our Administrative Secretary for 26 years. Libby has truly been the person behind the scenes of everything good that has happened in the Section for her period of time with us. She has been the lone employee of the Section, ensuring that all we volunteers get our work done. Her organizational skills, tact, friendliness, and energy will be attested to by anyone who has held office in the Section and she will be greatly missed; although she promises to stay active with us.

We will also be welcoming Daria Walsh who is beginning her term as our new Office Administrator. Daria was carefully selected from several hundred candidates responding to the Section's advertising campaign for the position. Daria holds a BS in Administrative Office Management from The College of New Jersey and an AA in Legal Secretarial Science from Bucks County Community College. She has an impressive resume of accomplishments while employed at Princeton University, Rutgers University, Robert Wood Johnson University Hospital Foundation, The Philadelphia Museum of Art, and the University of Delaware.

Please consider joining us to honor Libby and welcome Daria at 6 PM on September 17th at Scoogi’s at 738 Bethlehem Pike, Flourtown, PA 19031.

Please also thank Alan Heldon, Deborah Cook, Christine McInnis, and James Tarver for the hundreds of hours of work it took to advertise for the position, read applications, conduct telephone interviews, conduct in-person interviews with finalists, and develop and then offer a well thought-out compensation offer. The Section will owe its thanks to these individuals for many years to come!

Thank you for all that you do!

For those wishing to get more involved with our Section, my door is always open.

willsmith2@aol.com
(215) 638-7453

THE PHILADELPHIA SECTION, AMERICAN CHEMICAL SOCIETY

SEPTEMBER MEETING

HAIL AND FAREWELL

**Welcoming our new Office Administrator
Daria J. Walsh**

**Saying farewell to retiring Administrative Secretary
Libby Harper**

Thursday, September 17, 2015

**Scoogi's
738 Bethlehem Pike
Flourtown, PA 19031**

6:00 PM

Dinner cost: \$45; Students with reservations & ID: \$20

RESERVATIONS should be made by calling Ms. Walsh at the Section Office, (215) 382-1589, or emailing PhilaACS@aol.com by 5:00 PM, Thursday, September 10th. Cancellations, if necessary, cannot be accepted after NOON on Tuesday, September 15th. **UNCANCELLED RESERVATIONS WILL BE BILLED.**

PARKING: Parking on site and across the street.

The Board of Directors will meet at 4:00 PM at Scoogi's.

NEWS ATOMS—*Alan Warren*

Jeffery Saven, professor of chemistry at Penn, received the Dean's award for innovation in teaching. **Abraham Nitzan**, also a chemistry professor at Penn, was elected to the National Academy of Sciences.

Penn's Rhodes-Thompson professor of chemistry, **Amos B. Smith, III**, was awarded the 2015 Perkin prize for organic chemistry, bestowed every two years by the Royal Society of Chemistry. **Joseph Subotnik**, associate professor of chemistry, was honored with the Camille Dreyfus teacher-scholar award at Penn, and also the Lectureship award of the *Journal of Physical Chemistry*.

Among the ACS 2015 Fellows, honored for their contributions to science and the profession, are section members **Rodney Morris Bennett** of Critical Path Services, and **Steven A. Fleming** of Temple University.

The University of Pennsylvania and the **Baruch S. Blumberg Institute** have partnered to create the Master of Chemical Sciences program, whereby Penn's graduate students will engage in research in addition to course work.

A. Joshua Wand, professor of biochemistry and biophysics at Penn, was elected a Fellow of the American Physical Society. The American Institute for Medical and Biological Engineering inducted Penn's **Scott Diamond** and **Ravi Radhakrishnan**.

The 12th annual Gordon E. Moore medal was awarded by the Society of Chemical Industry to **John A. McCauley**, director of medicinal chemistry at Merck Research Laboratories, to recognize early-career success in innovation.

DEATHS

Daniel Louis Goffredo, chemist and industry executive, May 15th at 91. Following service in the Army Air Corps during World War II he taught chemistry at Lehigh University. He held research, consulting, and technical director positions at American Newspapers Research Institute Publications, Imperial Metal Co., Chemcut Corp., and Goffredo Company. He had many patents, and was a 65-year member of ACS.

Charles Albert Robinson, R&D scientist, May 16th at 93. During the Second World War he worked at Merck & Co. and then was a research assistant at MIT. After working for Arnold, Hoffman & Co. he joined Wyeth where he spent 18 years, retiring in 1981 as associate director of the firm's chemical development labs and pilot plant. In retirement he volunteered at Wintertur, the Hagley Museum, and the Chester County Historical Society.

William Russell Turner, retired research scientist, May 20th at 103. In 1940 he joined Atlantic Richfield Co., at first as a refinery operator in the cracking department, and then transferred to research and development. He worked on synthetic rubber, special lubricants, protective coat-

ings, and supervised research on polymers, waxes, microbial sources of protein, and technological forecasting. From 1971 to 1994 he held a seat on the stock exchange.

Victor H. Auerbach, biochemistry professor and pediatrics researcher, May 23rd at 86. Following research work at Columbia University and Tufts School of Medicine, he joined the University of Wisconsin School of Medicine as a research associate and instructor in physiological chemistry. In 1958 he moved to Temple University School of Medicine as a research professor in biochemistry and pediatrics. He retired in 1993 as emeritus research professor. Auerbach authored many papers and lectured worldwide.

Arthur Warren Chester, retired industrial chemist, May 26th at 75. In 1966 he joined Mobil Research in Princeton and transferred to the Paulsboro Research Laboratory in 1973. He authored papers and obtained many patents in the field of zeolite chemistry, and retired from Exxon/Mobil in 2002. In 2007 he received the ACS Heroes of Chemistry award for developing a process in selective disproportionation technology.

Irwin A. Rose, biochemist and Nobel Prize winner, June 1st at 88. He taught at Yale from 1955 to 1963 and focused his research on enzymatic reactions. In 1963 he joined the Fox Chase Cancer Center, retiring in 1995. In the 1970s he sponsored two Israeli researchers to work with him at Fox Chase to study how cells dispose of unwanted proteins. Their discoveries resulted in the three researchers sharing the 2004 Nobel Prize in chemistry. The co-winners were Avram Hershko and Aaron Ciechanover of the Technion Israeli Institute of Technology.

Lyle H. Phifer, retired analytical chemist, June 2nd at 87. He was past chairman of the Philadelphia Section ACS and received its Ulliyot award for meritorious service, and in 1973 the Philadelphia Section award. He joined American Viscose in 1953 as a research chemist specializing in chromatography. In 1972 he moved to Chem Service and later became president and owner of the firm.

Lyle also taught chromatography at Villanova and St. Joseph's Universities. He was a founder of the Delaware Valley Chromatography Forum and was active in the Philadelphia Science Council. He loved to play bridge and was an art enthusiast, serving as past president of the Chester County Art Association. He was a 60+ year member of ACS.

Charles Minor Barringer, retired chemist, June 13th at 94. He served as chief engineer on two US Navy destroyers during World War II and left the service in 1945 with the rank of lieutenant commander. He was employed by DuPont from 1949 to 1965 in organic chemicals and elastomers. He left DuPont to do consulting and community service. He helped found the West Center City Early Learning Center in Wilmington.

Jesse Henry Green, Jr., retired industrial chemist, June 16th at 95. After service in Europe during World War II he joined DuPont where he was employed at the Chambers Works plant. He was active in the DuPont Veterans Association.

2010 ACS FELLOW DR. HAI-LUNG DAI

Dr. Hai-Lung Dai was elected as an ACS Fellow on the basis of his dedication to science and volunteer work for the American Chemical Society. Hai-Lung received a BS in chemistry from the National Taiwan University (1974) and a PhD from the University of California, Berkeley (1981). He was a Postdoctoral Fellow at MIT (1981-1984).

Hai-Lung's professional career began in 1984 when he joined the University of Pennsylvania as an Assistant Professor of Chemistry. In 1989 he was promoted to Associate Professor and in 1992 to full Professor. In 2007 he moved to Temple University as Dean of the College of Science and Technology and the Laura H. Carnell Professor of Chemistry, a position he holds today. In addition he is Senior Vice Provost for International Affairs and Provost and Senior Vice President for Academic Affairs.

Some of Hai-Lung's scholastic honors are: American Chemical Society, Philadelphia Section Award (1995); Michael P. Malone International Leadership Award, Association of Public and Land Grant Universities (2013); Langmuir Lecturer Award, Division of Colloid and Surface Chemistry, American Chemical Society (2012); Distinguished Achievement in Research Award, US Chinese Institute of Engineers, New York (2009); Clearfield Lectureship, Department of Chemistry, Texas A&M University (2009); Ellis Lippincott Award in Spectroscopy, Optical Society of America, Society of Applied Spectroscopy and Coblentz Society (2006); plus many others.

Some of Hai-Lung's current professional activities are: Associate Editor, *Advanced Series in Physical Activity* (World Scientific); Advisor in Chemistry to World Scientific Publishing Co.; Editorial Board, *Chinese Journal of Physical Chemistry* (Beijing); Editorial Board, *Chinese Journal of Chemical Physics* (Taipei); Editorial Board, *Journal of Chinese Chemical Society* (Taipei); Advisory Board, Institute of Atomic and Molecular Sciences, *Academia Sinica* (Taipei); Advisory Board, National Key Laboratory on Molecular Dynamics, Chinese Academy of Science, among others.

Hai-Lung's past participation in the American Chemical Society was as Chair of the Peter Debye Award Selection Committee (2007-2008), Advisory Board, *Journal of Physical Chemistry* (2004-2007) and the Philadelphia Local Section Awards Committee (1996-1998).

An additional dimension to Hai-Lung's abilities is his musicianship: he has conducted the Temple University Orchestra.

The above is just a sampling of various awards and dedicated service to ACS and indicates why Hai-Lung was chosen as one of the 2010 ACS Fellows.

2016 Slate of Candidates

Chair-elect

Deborah Cook
Christie McInnis

Board of Directors

Deborah Cook
Jason Cross
Ella Davis
Renee Harris
Lee Hoffman
Christie McInnis
Elizabeth Wagoner
Deborah Walsh
James Tarver
Denise Thomas

Councilor

Tony Addison
Carol Jean Bruner
Judy Cohen
Judith Currano
Anne DeMasi
Rick Ewing
Marge Matthews
Russ Phifer
Kathy Shaginaw

Secretary

Alan Heldon

From the Spring Council Meeting—Tony Addison

Council met in Denver on the morning of Wednesday, March 25th. Our Section was again well-represented (see cover photo, May *Catalyst*). Bryan Balasz and Allison Campbell were selected as candidates for 2016 President-Elect. Willem Leenstra, Ingrid Montes, Mary Jo Ondrechen and Thomas Smith were selected as candidates for Director-at-Large. All these folks will appear on the November ballot.

The Denver meeting had 13,940 registrants, including 5,141 students. These numbers are remarkably similar to those for the Spring 2014 (Dallas) meeting.

Prior to the Council meeting, the Meetings & Expositions Committee had unenthusiastically approved the ACS Board of Directors' recommendation that the Early Member Registration Fee for 2016 national meetings be increased by \$15. However, there was discussion and some "push-back" at Council, and a vote was deferred. However, it transpires that this is a Board decision, and actually does not require Council's vote of approval. Nonetheless, a motion carried, that Council be provided with more information about the relevant financial projections. The Board has divided the National Meetings budget into two categories for the purpose of budgeting: the Exposition should yield a surplus, while the technical sessions should break even, so that the meetings show an overall gain of 5%. The activities in various cities are being watched; union disruptions at the convention center in Philadelphia make the Fall 2016 meeting very much an experiment. If things do not proceed smoothly, Philadelphia will go the way of New York with respect to ACS meetings, and drop off the roster of viable locations.

In 2014, ACS generated a net gain from operations of \$17.9M, which was \$4.2M favorable to the budget - about double the 2013 value. Total revenue was \$499M - again just shy of our becoming a "half-billion dollar" organization, as I had expected we should in 2013. In contrast to 2013, unrestricted net assets declined in 2014, falling by \$62M to \$145M. Again, most of this had to do with the required application of some rather arcane accounting rules to ongoing pension obligations and the way they are treated as a function of time.

While in Denver, I participated in the Middle Atlantic Region Board meeting; the ACS MAR 2015 Awards event was scheduled for May (Princeton).

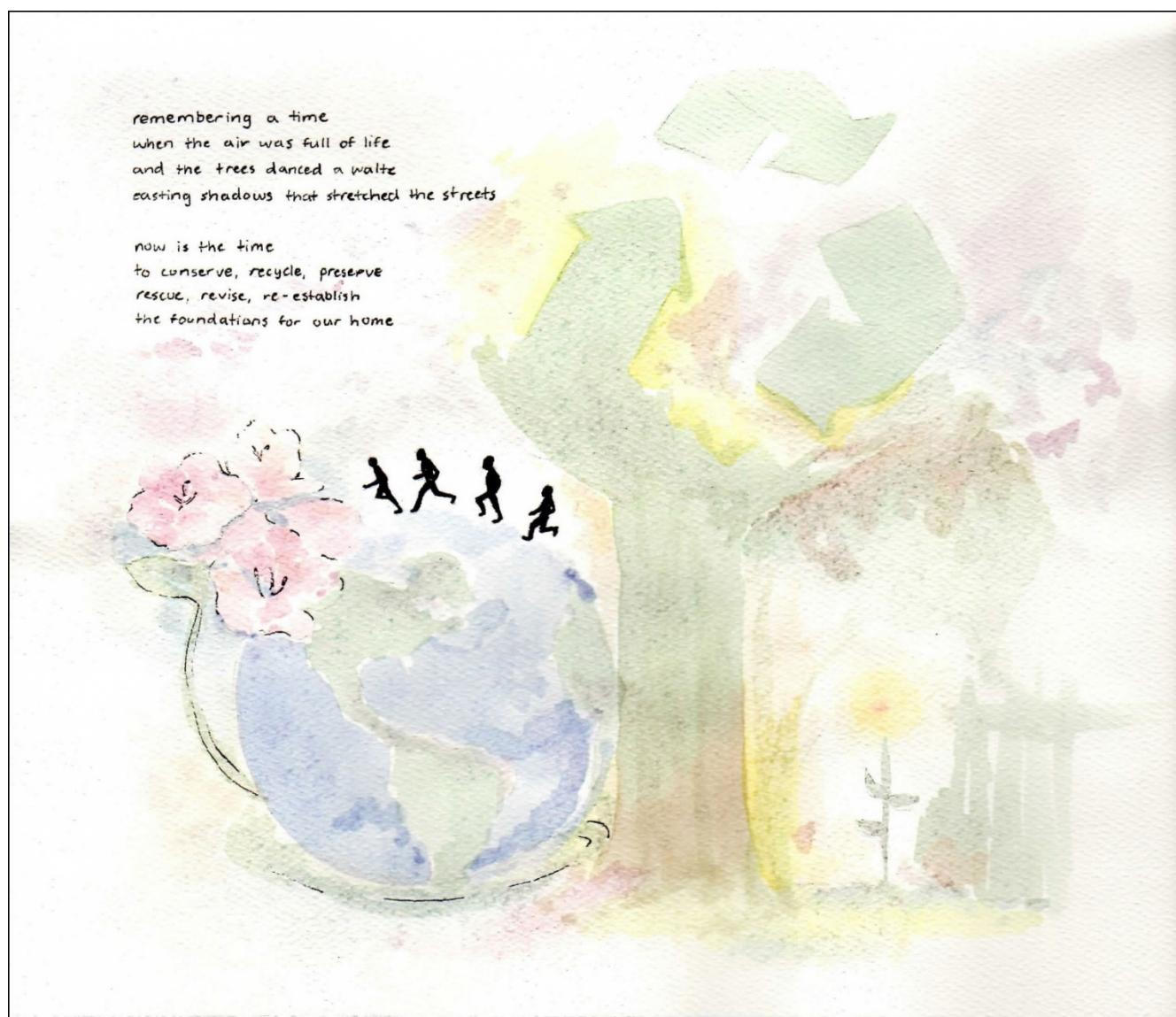
There will be a MARM in 2016: at the College of Mt. St. Vincent in The Bronx, June 9th-12th: see www.marmacs.org for further details as they develop.

Chemists Celebrate Earth Day Illustrated Poem Contest 2015

Great News! The Philadelphia Section has a national winner in the grades 9 – 12 category. She is Emma Jiang, a 10th grader at Conestoga High School, Berwyn, PA. Her teacher is Jean Michelcic. Congratulations to both! Her poem is below:

remembering a time
when the air was full of life
and the trees danced a waltz
casting shadows that stretched the streets

now is the time
to conserve, recycle, preserve
rescue, revise, re-establish
the foundations for our home



ACES October Program

We are thrilled to announce the ACES (Activities for Community Education in Science) Program on October 3, 2015! This program is for students grades 3-8. Designed by graduate students in the Chemistry Department at the University of Pennsylvania, this program is meant to introduce students to the sciences with a hands-on approach, showing them that science can be fun! The students will come to the Chemistry Department at Penn, where they will split into small groups to perform a variety of science experiments, as well as discuss the concepts behind the activities. See www.acesphiladelphia.com for more information on the planned experiments and registration.

National Chemistry Week

To All the Philadelphia ACS Members,

National Chemistry Week is fast approaching (October 18-24, 2015)! As the NCW Coordinator, I have access to NCW memorabilia. If any organization needs help finding volunteers for their event or memorabilia, please contact me at rharris1004@gmail.com by September 18th. I would also like to ask that any organization that is planning on holding an event during the week, whether they need volunteers or not, to please email me with information about their event (i.e., name of event, how many people plan to attend, when the event is being held). I cannot wait to see the amazing things planned for NCW.

Best,

Renee Harris

Fifty- and Sixty-Year Members at the June Luncheon

Front (left to right): Dr. William Marmer; Dr. Martin Vogel; Dr. William Ristey; Dr. Colin MacKay;

Rear (left to right): Raymond Leary; Dr. Conrad Bergo; Dr. Helen Reid; Dr. James Barrett; Dr. John Nikelly





CHEMICAL CONSULTANTS NETWORK

SEPTEMBER 9, 2015 MEETING

~ **HONORING LIBBY HARPER** ~

Retiring Philadelphia ACS Administrative Secretary



ANNUAL OPEN FORUM

AL FRESCO BUFFET

SPOUSES WELCOME!!!

Visit our web page at www.chemconsultants.org

Date & Time: Wednesday, September 9, 2015 at The Cynwyd Club, Bala Cynwyd, PA;
Networking, 5:30 PM; Buffet, 6:15 PM; Forum and Business Session, 7:30 PM

Program: As in the past, we will informally exchange questions and experiences relating to our activities as independent chemical consultants or our interests in becoming one. This gathering has been one of our most popular and enjoyable events, so don't miss it!

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 .14 mi/750 ft). Do not follow Rte. 23 left at turn but instead go straight ahead onto Llandrillo Rd. (passing to right of Valley Press printing). In 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 or press *. [MAP](#)

Reservation: To make or cancel a dinner reservation, log in to chemconsultants.org, 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 \$25 for individuals or \$40 per couple. Reservation/cancellation deadline is Saturday, September 5. DRESS IS CASUAL. Dietary restrictions accommodated on a limited basis. There is no charge for Forum only, but registration is suggested using contact information above.

669th BOARD OF DIRECTORS' MEETING

Thursday, April 16, 2015

McCall Meeting and Conference Center, Highland Park, PA 19083

Present: David J. Cichowicz, Melissa Betz Cichowicz, Deborah H. Cook, Ella Davis, Anne DeMasi, Steven Fleming, Alan R. Heldon, Cynthia Palmer, Kathleen Shaginaw, William Smith, Thomas S. Straub, Judy Summers-Gates, James Tarver Denise Thomas, and Victor Tortorelli.

Excused: Rick Ewing and Christine McInnis.

Absent: Judith Cohen, Douglas Hausner and John (J.P.) Northrop.

Also present: Elisabeth Harper, Carol Jean Bruner, Joe Martino.

The 669th Board Meeting of the Philadelphia Section, ACS, was called to order at 4:14 PM with a quorum present.

Note: R. Ewing and C. McInnis requested to be excused from the May Board Meeting.

1. Minutes: The Minutes of the February Board Meeting, on motion with a second, were approved with 0 nays and 1 abstention. The March Meeting Minutes, on motion with a second, were approved with 0 nays and 1 abstention.

2. Committees

A. Awards Committee, B. Smith reporting by proxy for R. Ewing.

One nomination each has been received for the Undergraduate and High School Teacher Awards. The propriety of giving an award when only one nomination had occurred was discussed. On motion, with second, the nominees were approved with 0 nays and 1 abstention.

It was proposed that the current nomination period be extended to September through January. The awards Committee would like to enlarge the current period of time. On discussion, it was decided that no Board approval was necessary as determining the period for nominations was within the inherent powers of the Committee. The Board "encouraged" the time enlargement.

The general need for a better approach to award nominations was discussed and will be a topic at the upcoming Executive Committee meeting.

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

1. The last meeting of the Career Club took place on Tuesday, March 31st, 6 PM to 9 PM, at the Community Center of the Giant Super Food Store in Willow Grove, PA. Joe Martino moderated.

2. The next Career Club will be June 2nd from 6 PM to 9 PM, in the Community Center of the Giant Super Food Store in Willow Grove, PA. Joe Martino will moderate.

3. A Career Services career workshop for experienced professionals is scheduled for May 12th from 6 PM to 9 PM at the Community Center of the Giant Super Food Store in Willow Grove, PA. The workshop will cover current trends in interviewing, and will be presented by Joe Martino and Lori Spangler. The workshop will feature interactive exercises for participants. All are welcome.

The Chemical Consultants Network would like to conduct a joint meeting and it is being explored.

C. Council Affairs, Kathy Shaginaw reporting

1. Regarding the Ocean County Section dissolution and affiliation - Due to performance deficiencies the ACS Committee on Local Section Activities (LSAC) moved to dissolve the Ocean County Section. Council voted to dissolve the Ocean County Section at the San Francisco Council Meeting. The matter of the Section's dissolution and possible affiliation with another Section was not handled optimally by National.

National contacted various local sections including sections not contiguous with the Ocean County Section. There was substantial confusion. Even though it had been pointed out that the contiguous Local Sections of the Ocean County Section were the Philadelphia, North Jersey, and South Jersey Sections, the South Jersey Section was not contacted. After a conference call with LSAC, members of the Trenton Section and the Philadelphia Section were "invited" to poll the Ocean County Section about re-annexing the territory. The South Jersey Section contacted LSAC after the publication of the San Francisco Council Agenda, requesting the opportunity to annex the Ocean County Section territory. As a courtesy to other sections and the Ocean County Section, Philadelphia agreed to withdraw its application to acquire the territory.

The Philadelphia Section is continuing communications with Ocean County ACS members. Note: the Ocean County Section Treasury went to the Princeton Section.

National has no procedure for acquiring unassigned territories and LSAC is working on a procedure to handle situations where more than one Local Section wants to acquire unassigned territory and will have an update at the Boston Council Meeting.

2. The Philadelphia Section is losing one councilor due to membership loss. We are being reduced from 12 councilors to 11, effective January 1, 2016. Absorbing the former Ocean County Section membership, while helpful, would not have been sufficient to retain the twelfth seat. If we are to reacquire that seat we must increase Section membership.

There was substantial discussion of our declining membership and our councilor seat allocation. We are addressing issues with LSAC.

Programs to increase membership and retention of members will be placed on the agenda of the May Board Meeting.

Note: the ACS is developing social media guidelines.

3. Officers

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

1. The Chair reported that the Y.C.C. would have a booth at the Philadelphia Science Carnival on May 2nd on the Ben. Franklin Parkway. Demonstrations will center around guar gum slime. It was noted that the Section needs to have a greater presence during the whole week of the Science Festival, not just the one day booth at the Carnival.

2. Industrial Liaison Group: Anne DeMasi volunteered to coordinate this group.

3. Executive Committee: The Executive Committee will meet on April 28th to consider Committee restructurings, the upcoming Administrative Secretary vacancy, and increasing membership and membership retention.

4. Twitter Account(s): Liliana Suarez has volunteered to look after our Twitter accounts. The Y.C.C. is currently using the Section's Twitter account. The Section needs additional Twitter accounts. Chair volunteered.

5. Local Section Science Café Grant: The Section still has funds remaining.

6. The ACES grant application was approved.

7. Up Coming Meetings: May 21, 2015, Philadelphia Section Teaching Awards, University of the Sciences. June 18, 2015, 50+ Year Members Meeting, Adventure Aquarium, Camden, NJ, Specifics to be announced.

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

Not present

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

No report

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

Due to software problems, the Treasurer is unable to submit a report. \$20,000.00 was transferred to our operating account. The Section's allotment from National has not been received. Anne DeMasi will inquire. The Treasurer's Report will be submitted to the Board by email.

E. Nominations Committee, Steve Fleming reporting

The Nominations Committee is moving along. This year's slate will reflect loss of one Councilor position. Candidates for chair-elect are being sought.

4. Other Business

A. National Chem. Olympiad, Tom Straub reporting

The Section's allocation is reduced to 21 seats. Allocation is determined by section size.

B. The Science Café is to be placed on the May Meeting Agenda

C. Kathy Shaginaw, Katt@verizon.net.

PAGES™ will be April 18, 2015 at Chestnut Hill College. Speaker: Stefanie Kroll, Academy of Natural Sciences. The Board expressed its best wishes.

There being no additional business before the Board, on motion, the meeting was adjourned at 5:04 PM.

Respectfully submitted,

Alan R. Heldon, Secretary, alanheldon@comcast.net

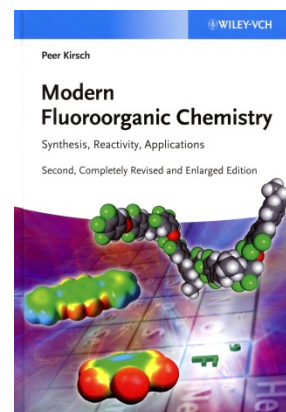
BOOK REVIEW—*Alan Warren*

Modern Fluoroorganic Chemistry, second edition, by Peer Kirsch. 400 pages, 6 ¾ by 9 ¾ inches, casebound, in English, Wiley-VCH Verlag, Weinheim, Germany, 2013, ISBN 978-3-527-33166-6.

The rapidly evolving field of fluorine-containing organic compounds and their applications necessitated this completely revised second edition of Kirsch's original 2004 version. The book begins with a 4-page listing of abbreviations used in the text. Following a timeline in the history and development of fluoroorganic compounds is a chapter on synthesis including electrochemical fluorination, fluorinating aromatics, and electrophilic fluorination among others.

Subsequent chapters are devoted to perfluoroalkylation, selected fluorinated structures, and fluorous chemistry. The remaining chapters describe the applications for organofluorine compounds. Some of these are electronics, liquid crystals, polymers, pharmaceuticals, and agricultural chemistry. Fluorinated dyes and organic electronics are two areas not covered in the first edition.

An appendix summarizes typical synthetic procedures and another is an index of synthetic conversions. The book is a good resource for fluorine chemists and will serve as an introduction to the field for non-specialists.



DIRECTORY OF SERVICES

SEARCHING FOR THAT SPECIAL JOB?

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

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

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

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

SURPRISE

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

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

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:
<http://www.membership.acs.org/p/philadelphia>

or by calling Mrs. Libby Harper 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

E-Mail micronanalytical@compuserve.com

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

Web Page: www.micronanalytical.com

ADVERTISING INDEX

ACS	132
Micron Inc.	132
NuMega Resonance Labs, Inc.	132
Robertson Microlit Labs	132
Tyger Scientific Inc.	132



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

email: vincegale@mboservices.net

**PHILADELPHIA SECTION, ACS
2015 CALENDAR OF ACTIVITIES**

Date	Event	Locations
September 9	Chemical Consultants Network Annual Picnic	Cynwyd Club, Bala Cynwyd, PA www.chemconsultants.org
September 10	Joseph Priestley Society: David DeVore, Functional Products, Inc.: <i>It Pays to Be Tacky: Lessons Learned in Growing a Small Specialty Chemical Company</i>	Chemical Heritage Foundation Philadelphia, PA www.chemheritage.org/jps
September 10	The Chromatography Forum of the Delaware Valley: Nathan Lacher: Pfizer, Inc.: <i>Enhancing the Vaccine Characterization Toolbox through the Use of New Instrumentation and Novel Column Technology</i>	D'ignazio's Towne House Media, PA http://www.cfdv.org
September 10	Annual Networking Meeting: AWIS-PHL Mentoring Program	Community College of Philadelphia Philadelphia, PA http://www.awisphl.org/meetingregistration.htm
September 12	Philadelphia Inorganic Colloquium	The College of New Jersey Ewing, NJ http://sites.temple.edu/picsite/
September 14	Delaware Valley Mass Spectrometry Discussion Group: Richard Caprioli, Vanderbilt University: <i>MALDI Imaging</i>	Department of Chemistry, Villanova University Villanova, PA http://science.widener.edu/svb/msdg/
September 17	Hail & Farewell at Scoogi's	738 Bethlehem Pike Flourtown, PA 19031
September 17	Philadelphia Organic Chemists Club: Paul Williard: Brown University: TBA	Depart. of Chemistry, University of Pennsylvania Philadelphia, PA http://www.pocclub.org/
October 3	ACES Youth Chemistry Program	Chemistry Dept., University of Pennsylvania Philadelphia, PA http://www.acesphiladelphia.com/
October 9	Princeton ACS Fall Organic Chemistry Symposium	Forsgate Country Club, Monroe Township, NJ DeniseD@princeton.edu
October TBA	TBA	TBA
November 17	Ulyot Lecture: Bruce Alberts, University of California, San Francisco	Chemical Heritage Foundation Philadelphia, PA www.chemheritage.org